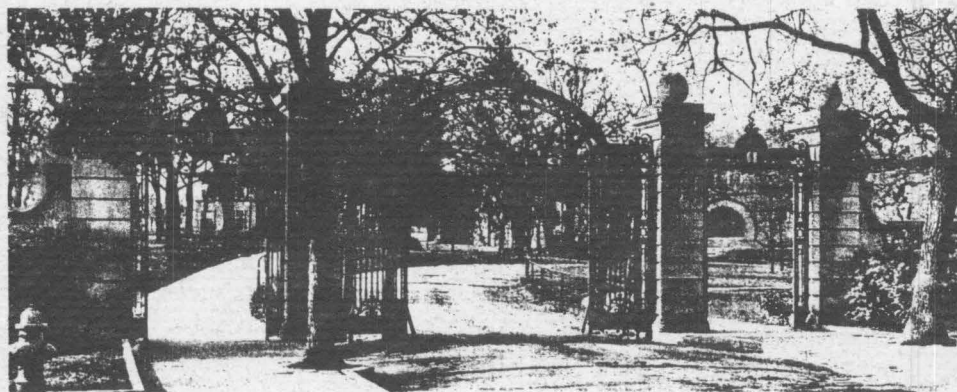


UNIVERSITY OF MINNESOTA
OFFICE OF PHYSICAL PLANNING

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LANDSCAPE
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Entrance and Edges
Implementation Plan

TWIN CITIES CAMPUS
APRIL 1990

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Entrance and Edges
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Foreword

This plan is a companion document to the LANDSCAPE DEVELOPMENT PROJECTS report presented to the Board of Regents in March of 1990. The report was enthusiastically received by the Board, who encouraged Central Administration to proceed with implementation planning. Responding to the expressed wishes of the Regents, the Entrance and Edges Implementation Plan specifically defines what the perimeter of the Twin Cities campus might look like, and suggests alternative means to carry out the Regents' commitment to creating a quality physical environment.

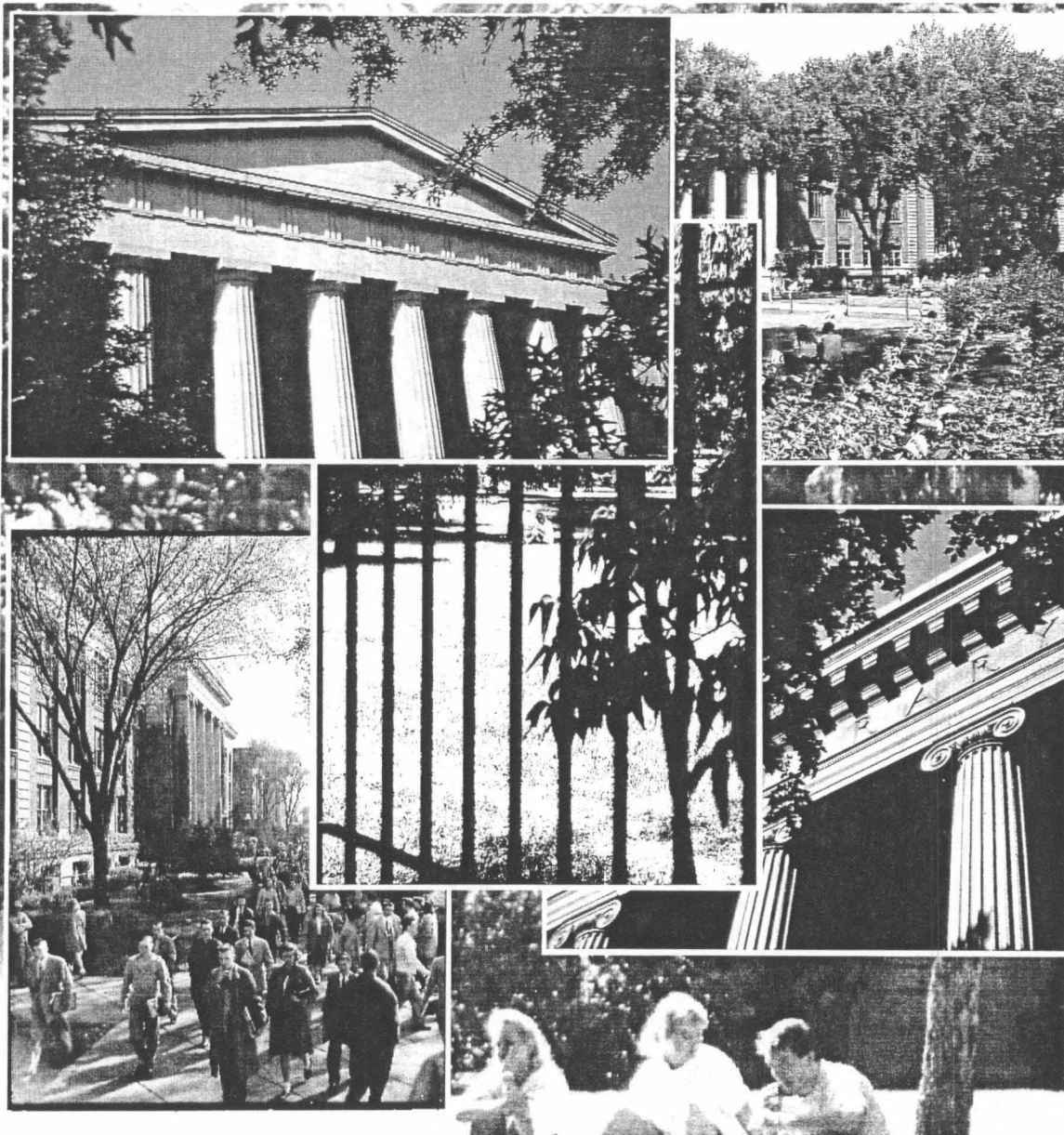
Introduction

The Collegiate Environment

The collegiate environment is unique in the lexicon of urban spaces. The elements that combine to give a campus its "sense of place," its scale, openness, order, and tranquility, are rarely found beyond the collegiate environment. Closely tied to this sense of place is the sense of arrival, the sensation of entering a singular environment that differs from its surroundings. That environment is the University campus.

University Images

Certain mental images are traditionally associated with outstanding Universities. They are the icons of a collegiate environment: grand architecture that has acquired the patina of age, building columns with ornate capitals, iron gates and fencing, mature vegetation, open lawns and vistas; a multitude of harmonious visual experiences.



Held in the public mind, the image of a University is based largely upon how the public perceives and experiences the campus proper. The on-campus experience of students, staff, faculty, and visitors, builds an image of the University in the collective memory of the public. It follows that if the University makes every effort to provide a collegiate environment to which the public has simple and direct access, the University will be widely supported and embraced by the public it serves.

The collegiate environment should speak to the learning experience that takes place on a University campus. For an urban University, it is essential to physically define, strengthen, and maintain the campus landscape. The Entrances to and Edges of the collegiate environment are an important element of the landscape. Without identifiable Entrances and Edges, the collegiate environment spills unceremoniously into adjacent land masses, becomes fragmented, and presents itself to the public in a way that invites confusion, frustration and disorientation. The educational mission of a University should begin at the perimeters of the collegiate environment, where the University has its first opportunity to project a positive image, and to invite public access to its programs and facilities.

Historical Perspective

The University, purposefully located on a rare and magnificent site, shall forever be distinguished by its proximity to one of the world's great rivers. Symbolically embracing this river of knowledge, the Minneapolis campus was originally endowed with a richness and a fullness that has diminished in the face of large scale urban development around the University and rapid expansion within the campus proper. At the turn of the century, a small cluster of buildings constructed during the late 1800's, formed the nucleus of the Minneapolis campus. This group included Eddy Hall, Pattee Hall, Shevlin Hall, Music Education, and Burton Hall. Grouped around a tree-covered open space (The Knoll), these structures embody an integral sense of harmony that is expressed in terms of their architectural style and materials used in their construction. As new buildings like Peik Hall and Peik Gym were constructed around this nucleus, the sense and image of a harmonious campus began to deteriorate. Subsequently, the intensive campus expansion, characterized by eclectic architectural styles and the use of diverse materials, has almost totally eroded the sense of a harmonious environment. In 1902, Frederick Law Olmstead made a statement to the Board of Trustees of the University of Chicago which relates to what has been lost on the Twin Cities campus, and at the same time, points to what can be done to reclaim that loss.

"No amount of beauty in each individual building can ever compensate for the loss of the essential element of harmony and unity in the whole group of buildings. This harmony is to be secured by the unity of quality and color of material and reasonable unity of style and design.

Of these two, the unity of color and material is decidedly the more important in all general views of the group of buildings."

The Pillsbury Memorial Gate and Fence

The sense of wholeness that characterized the campus during the early 1900's was underscored by a strong campus Edge along University Avenue. In 1902, Sara Pillsbury Gayle donated the Pillsbury Memorial Gate and Fence to the University in memory of her father, John Pillsbury. This stone and iron fence was constructed between 14th Avenue and Church Street along the south side of University Avenue. It featured a



■ The Pillsbury Memorial Gate in 1908

narrow central arch and two gateways at the intersection of University Avenue and Pillsbury Drive; clearly the entrance to the Minneapolis campus at that time. Scaled for turn of the century vehicular traffic, the arch was modified in 1922 to accommodate modern-day vehicles by



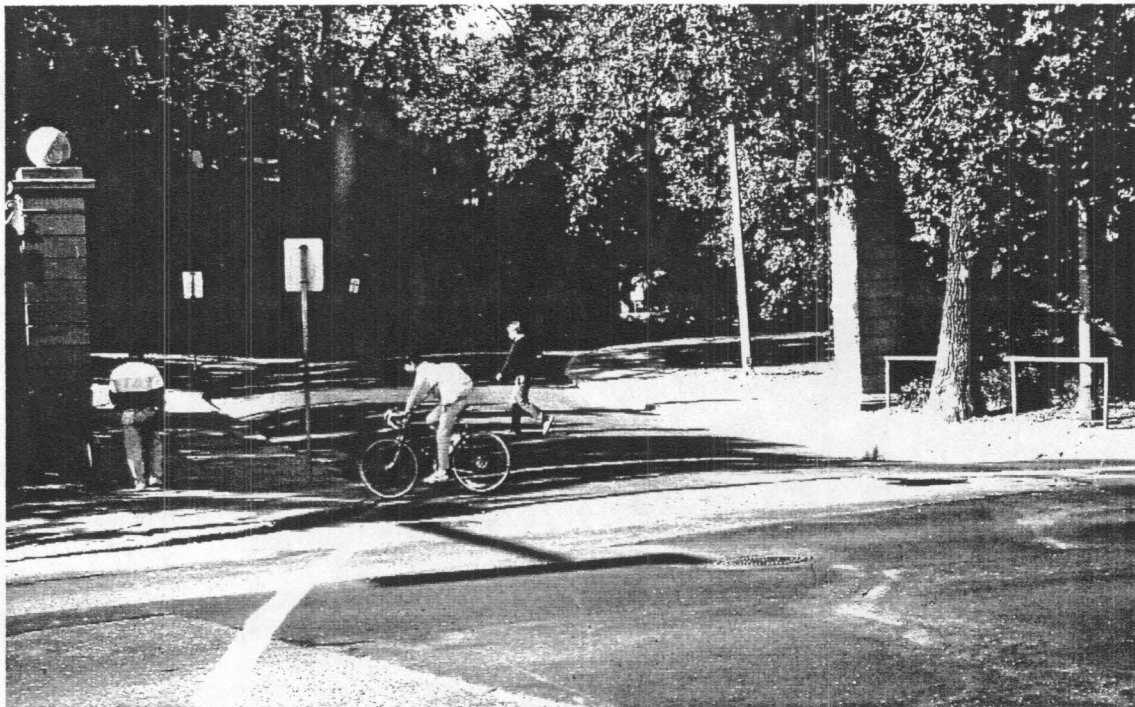
■ The Pillsbury Memorial Gate during the 1920's

removing a portion of the ornamental iron from the main pillars. By 1943, the gateway arch had been removed completely to accommodate trucks and other high-clearance vehicles, leaving only four pillars to mark



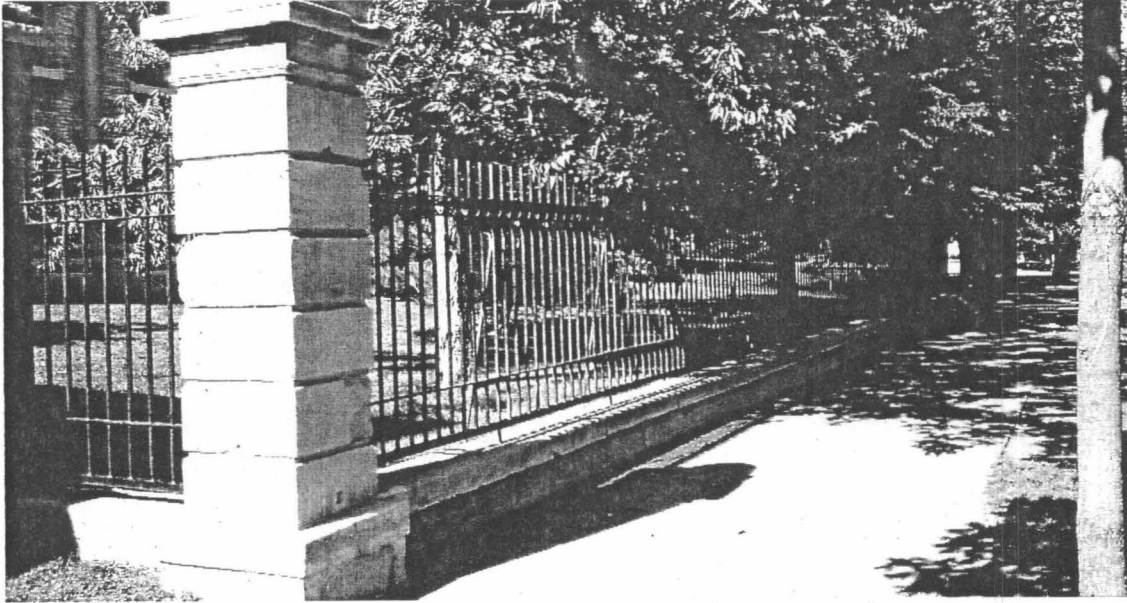
■ The Pillsbury Memorial Gate during the 1940's

the entrance. In October of 1978, the east pillar was demolished by a semi-trailer, hastening the removal of both central pillars. This accident left the entrance gate in its present configuration; a mere shadow of its past majesty.



■ The Pillsbury Memorial Gate today

The fence remained intact for more than sixty years, until a portion near the Armory was torn down during the Viet Nam War protests of the late 1960's. By the mid-1970's, efforts were underway to recapture the image of a continuous Edge, by reconstructing the Armory portion of the fence. In 1985, reconstruction was complete, restoring the fence to its original configuration.



■ The restored Armory Fence

Existing Conditions

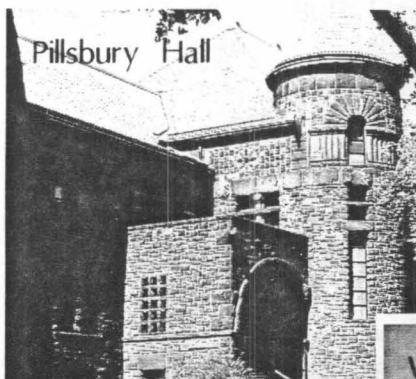
The University of Minnesota Twin Cities campus is one of the largest Universities in the country. For the first time visitor, its complexity and lack of easily discerned entrance signage and border-lines can make accessing University programs and facilities a complicated endeavor.



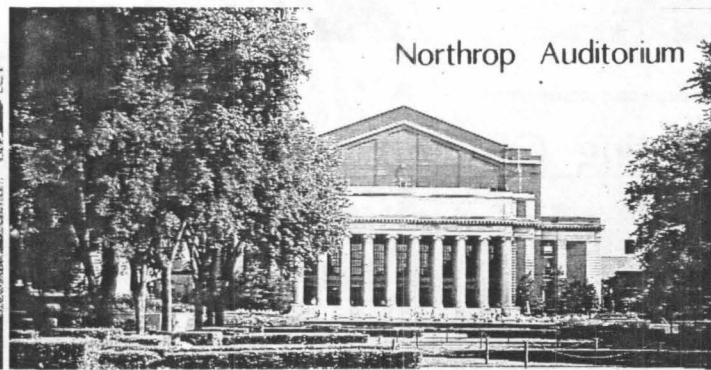
■ Washington Avenue on the East Bank

It is clear that for the general public and anyone not intimately familiar with the University infrastructure, there is no definite perception as to where the campus begins and ends, and more importantly, how to locate a specific destination after arriving on campus. This is partially attributable to University expansion in the context of an urban setting. Much of the University perimeter, particularly in Minneapolis, lies adjacent to industrial, neighborhood, or business districts, and is devoid of recognizable demarcation which sets the campus apart from adjacent land uses. The resulting loss of containment has contributed to a chronic lack of images that are traditionally associated with the collegiate environment.

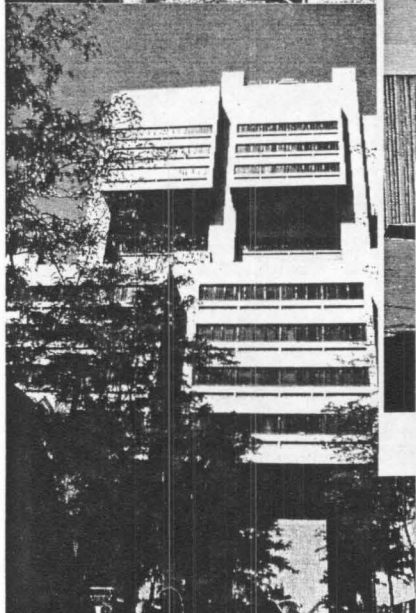
In addition, the campus is composed of many different architectural styles. On the East Bank campus alone, these range from neo-classical Beaux-Arts (Northrup Auditorium) to Richardson Romanesque (Pillsbury Hall), to cast-in-place concrete structures (Williamson Hall), to 20-story aggregate panel structures (Moos Tower), to high-tech modern structures such as the Civil and Mineral Engineering Building. Given this eclectic architectural mixture in the midst of diverse land uses, the University as a land and building mass does not appear to have a sense of unity. Along most of its perimeter, the University does not define itself in a visual sense. The unity of this collegiate environment is essential and must begin at the campus perimeter.



Pillsbury Hall



Northrup Auditorium



Moos Tower



Williamson Hall



CME

There is a definite need for an implementation plan to establish a unified network of recognizable campus Entrances and Edges. The implemented plan will attain two highly desirable goals. By delineating its collegiate environment through the introduction of pedestrian-scale signage and other landscape elements, the University can, on a comprehensive level, establish the campus scale, character, and environmental quality mandated in the Long Range Development Plan and the Policies and Principles for the Planning, Design, and Construction on the Twin Cities campus. These documents speak to upgrading the campus "in order to reach its full potential" as a "human-scaled, vital, diversified, convenient, human urban amenity." By improving its campus environment, the University strengthens itself internally and underscores its reputation as an institution of higher learning where educational opportunities are available to anyone seeking the benefits of its programs and facilities. The introduction of pedestrian-scale landscape elements into the campus environment will provide a sense of orientation for pedestrians and visitors which is now absent throughout most of the campus. This sense of orientation will make accessing the University less complicated and less cumbersome, allowing the University, as a system, to function more efficiently on a daily basis.

Future Opportunities

With development proposals now under consideration, the next ten years are likely to produce a number of opportunities to recapture the harmonious image of this great University. The first step is to define an implementation strategy for the Entrance and Edges Plan for the Minneapolis East Bank, the Minneapolis West Bank and the St. Paul campuses. As individual parts of a whole, each must be considered in its own urban context. The St. Paul Campus, for example, does not have the dense, crowded conditions at its perimeter that characterize the Minneapolis Campus, even though both campuses are considered "urban". Each campus will, therefore, have its own requirements regarding the nature of what is implemented to establish its Entrances and Edges. Landscape elements such as fencing, lighting, plant materials, and signage should be chosen to provide unity between campus entrances and campus systems, insuring that individual academic precincts can be unified as a cohesive collegiate environment. An important function of these landscape elements is to establish a unified Entrance and Edges system unique to the campus, inviting to the public, and recognizable twenty-four hours a day.

Consistent use of plant materials and monumentation can provide continuity between entrances. The Edge system should have a deliberate, constructed quality, consistent with, but not identical to the historic edge conditions that exist along University Avenue, between 14th Avenue and Church Street. Entrances should also have a constructed quality, and employ materials which unify the Entrances and Edges. Entrance and Edge lighting is similarly important as a unifying element. Lighting is the one element that can provide both flexibility and uniformity throughout the Twin Cities campus. Current trends suggest that nighttime use of the campus will continue to increase through expanded extension class enrollment and special event attendance. Lighting will play an increasingly important role as a visual queue and a security consideration as the nighttime population of the campus grows.

Minneapolis Campus - East Bank

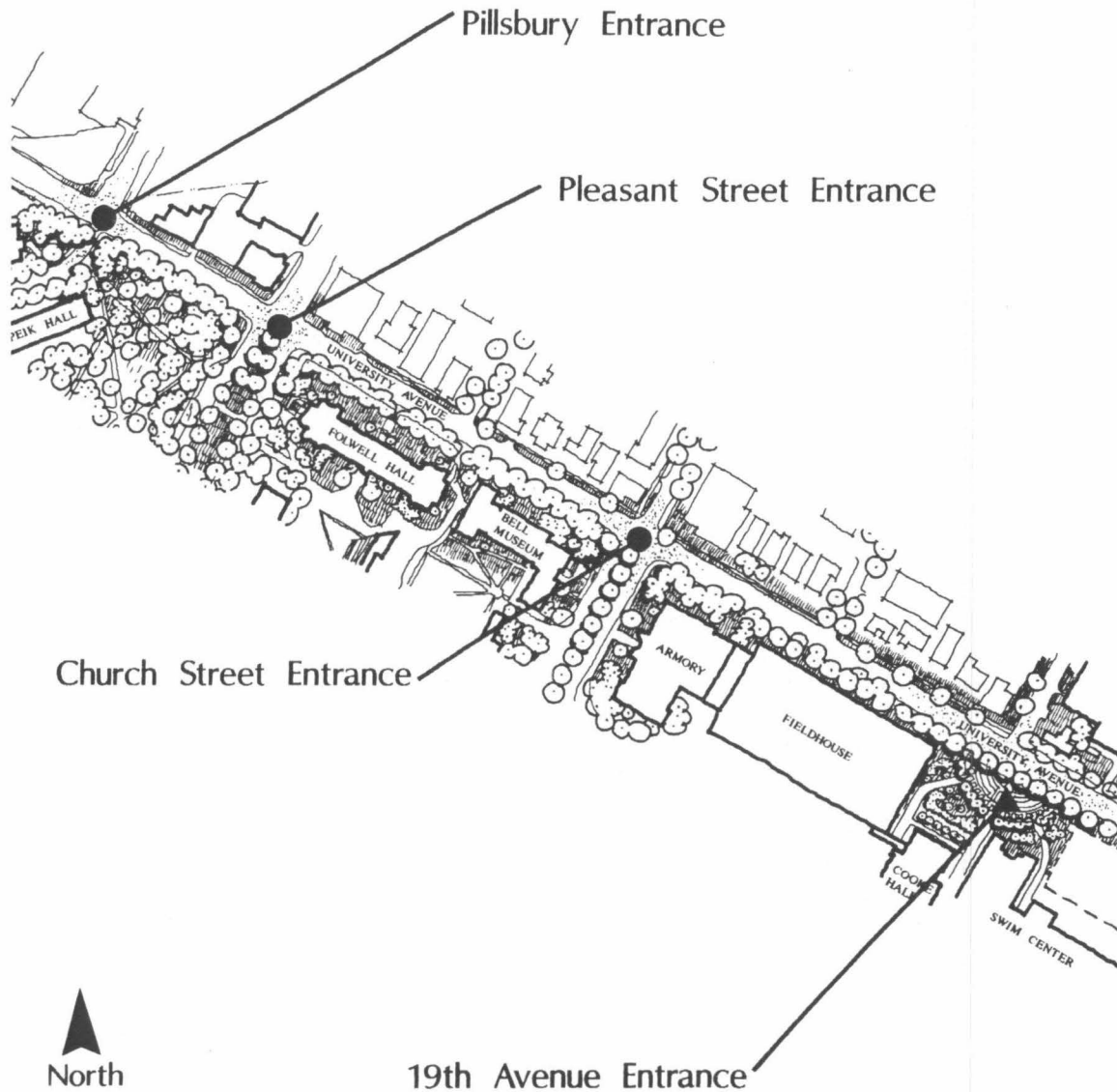
By its nature, the Minneapolis East Bank campus is complex and intimidating. Where it exists, pedestrian-scale signage and directional information is often lost in the urban clutter of the campus and its surroundings. Various Edge conditions exist, but there are many excellent opportunities to establish bona fide campus Entrances on the East Bank. Edge conditions vary from the strong, fence-defined Edges along University Avenue, to weak, transparent Edges like those that exist in the Oak Street/Washington Avenue area. Figure 1 (page 13) identifies recommended Edge improvements required as part of the Implementation Plan. The improvements specified will define and strengthen campus Edges and, along with campus Entrance development, further define the collegiate environment. Figure 1 also shows campus Entrance locations and classifies them into four implementation categories.

The northeast quadrant of the Minneapolis campus, west of Oak Street and south of University Avenue, will undergo major land use and functional changes during the next ten years, as major building projects and potential athletic facilities are funded for construction in the area. The Recreational Sports Facilities project is under construction



adjacent to Cooke Hall, and others such as the remodeling of the Armory are being programmed for construction in the near future. These two projects, along with the possibility of a new arena and associated athletic facilities, offer a unique opportunity to establish and reinforce

a planned, sequential system of campus Entrances linked by recognizable Edges, containing landscape elements common to all sites. With Entrance and Edge improvements along University Avenue at Pillsbury Drive, Church Street, Pleasant Street and 19th Avenue, one complete line can be established along the north edge of the East Bank campus boundary.



Concept Plan - University Avenue

Site Identification and Categorization

Producing the Implementation Plan requires the identification of high-visibility campus Entrance sites that will be linked and unified by campus Edge development. These sites fall into four categories:

1. Immediate Sites

These sites have been identified as prime candidates for signage and landscape improvements. Possible funding sources have been suggested to implement improvements for these sites as site planning progresses. These will be the first sites developed under the implementation plan, forming the backbone of the system outlined in the plan.

2. Adjacent Sites

Adjacent sites will be developed in conjunction with current planning efforts and capital improvement projects. These are important sites in the system, since they present excellent funding potential and provide critical links in the overall system. They will be developed and funded in conjunction with projects that impact the entrances and edges identified in the Implementation Plan.

3. Contingent Sites

The third category is composed of sites that will be developed as future capital improvements, road improvements, or transportation projects begin to affect the campus. These sites will be impacted by projects that will be developed within the next ten years as land uses and transportation systems evolve from their current configurations. Development funds for these sites would be allocated in a manner similar to that described in the previous section.

4. Residual Sites

These residual sites are generally located at well-established intersections or open spaces along the campus perimeter. While they play an essential role in the Implementation Plan, they are residual because they do not fall into any other category. Site development funding for these sites will have to be allocated from landscape improvement funds or other administrative sources.

The Implementation Plan will be flexible enough to allow portions of the Entrances and Edges system to be implemented as specific funding opportunities present themselves (as in the case of major Capital Improvements Projects). With the implementation plan in place, other funding options can be pursued to complete the Entrance and Edges system.

Definition of Terms

Several terms are used throughout the following Site Descriptions. The most frequently used terms are defined below:

Articulated Entrances are characterized by low wall elements (up to 4½ feet tall) whose function is to delineate and announce the Entrance. They are the backbone of the Entrance and Edges network; each one being a crucial link in the overall system. Ornamental trees, low shrubbery, and flowers are appropriate landscape elements for this type of Entrance.

Ceremonial Entrances are larger in scale and have greater visual impact than Articulated Entrances. They are characterized by high (up to 10' tall) vertical elements as well as tall horizontal elements and may incorporate collegiate symbols such as columnar forms, scroll or volute forms, pediments, or other icons. By its nature, the Ceremonial Entrance is a formal delineation of and "anchor" for the entire Entrance and Edges network. Its large scale allows it to be embellished by tall-growing trees and shrubs along with decorative plantings of ornamental shrubs and flowers.

Coniferous plants refers to those that retain their foliage throughout the year. Examples include Arborvitae, Pine, and Spruce species.

Deciduous plants are those that drop their foliage each year. Examples include Oak, Maple, Lilac, and Honeysuckle species.

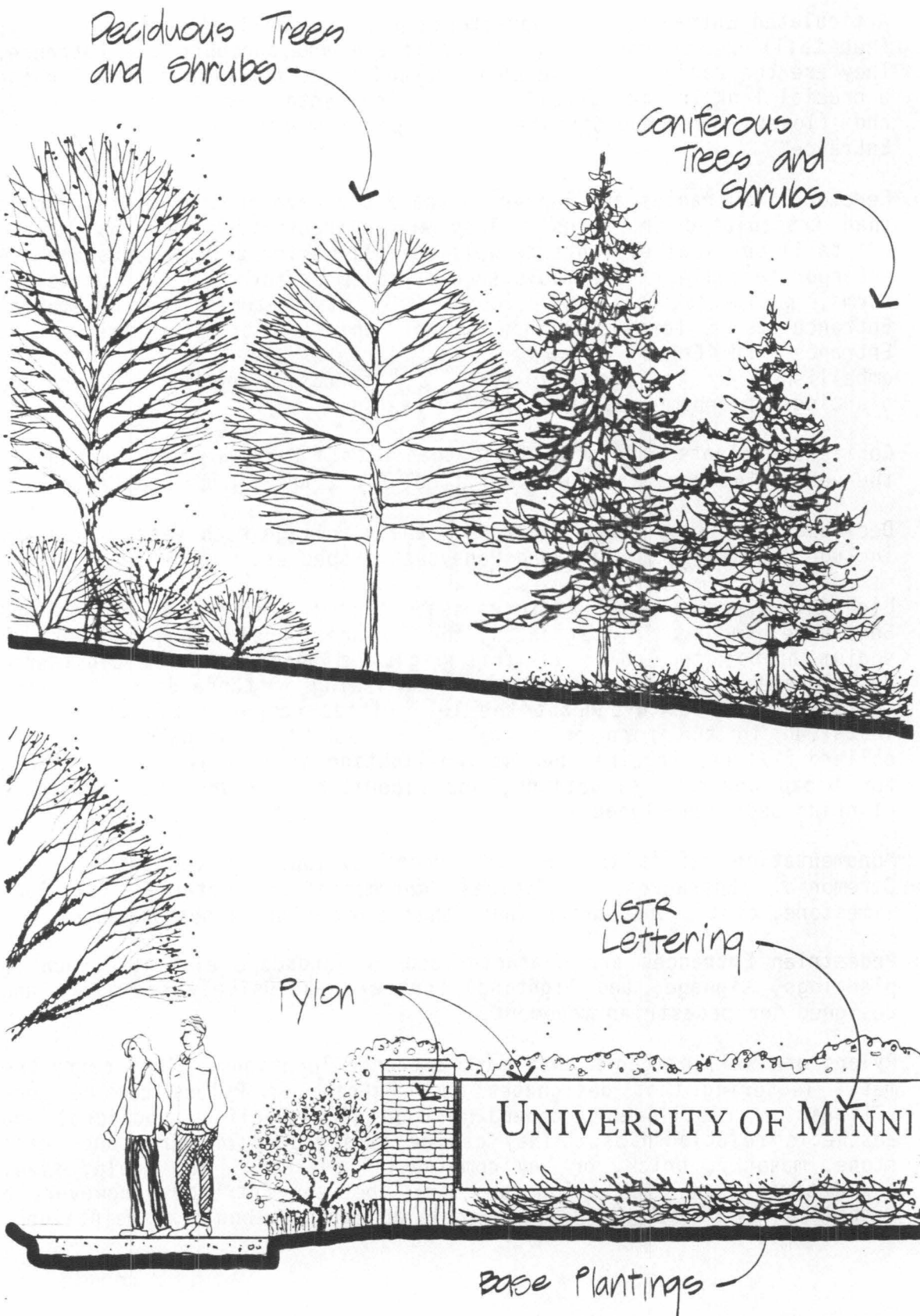
Lighting refers to light fixtures associated with proposed Entrance and Edge development. In most cases, the fixtures should use high pressure sodium bulbs; the color of this light is unique and is considered desirable from the standpoint of establishing a standard for lighting that can be used throughout the Twin Cities campus. Lights will be installed in the form of in-wall fixtures to illuminate sidewalks, bollard fixtures in other pedestrian lighting situations, pole fixtures for broad coverage situations, and floodlight fixtures to illuminate planting beds and signage.

Monumentation refers to the structures developed in conjunction with Ceremonial Entrances. Typical monumentation materials include limestone, cast stone, brick, and other appropriate masonry elements.

Pedestrian Entrances are characterized by landscape elements (such as plantings, signage, and lighting) that are exclusively scaled to and designed for pedestrian movement.

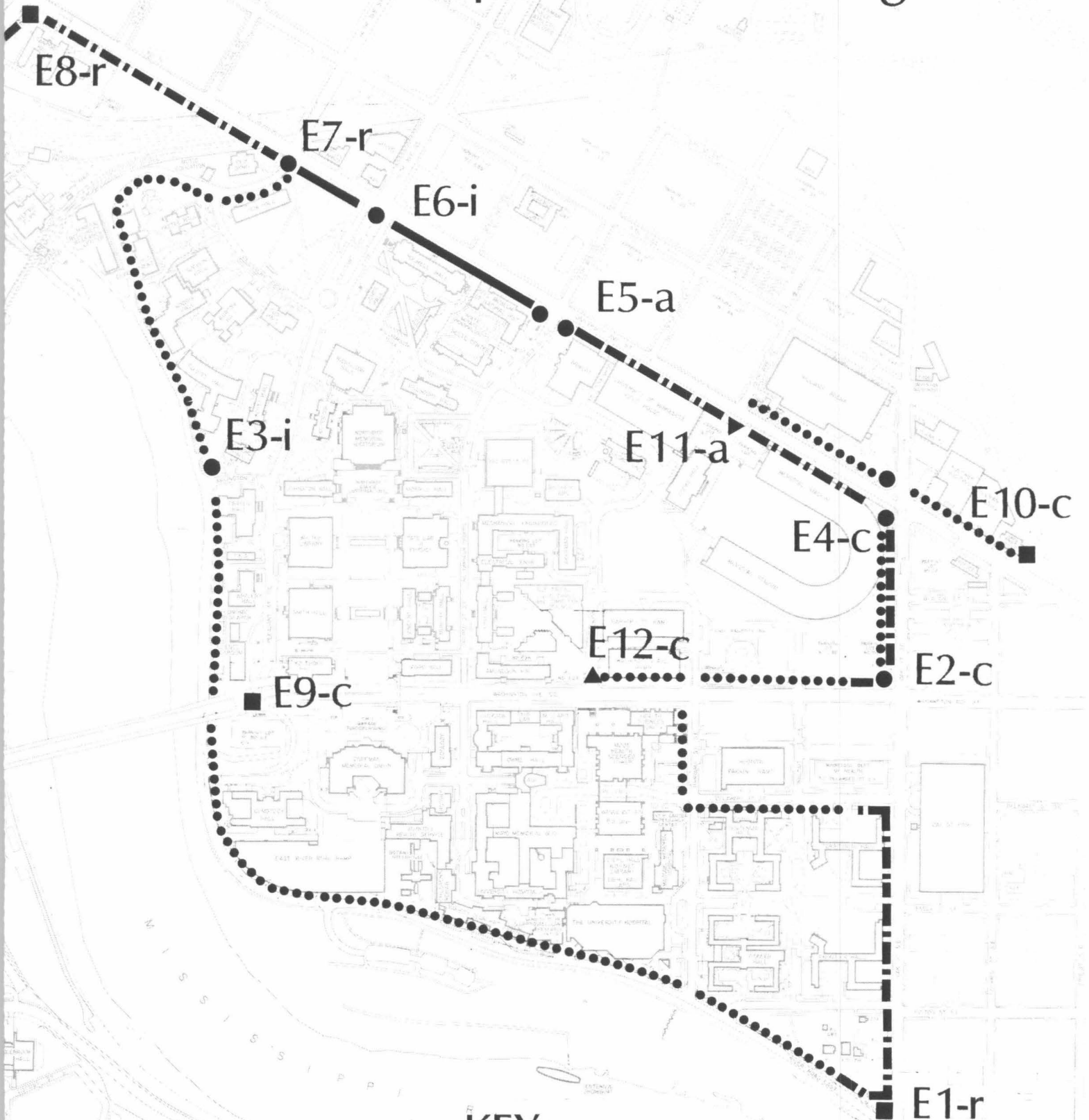
Pylons are wall elements that mark Entrance locations. They carry the metal lettering that designates each Entrance. Pylons can be curvilinear or rectilinear, depending upon site-specific functional and aesthetic relationships. They can be constructed of limestone, cast stone, masonry, brick, or any combination thereof. The scale, size, and materials of each pylon may vary between Entrances, however, a certain unity of materials and overall appearance should be maintained.

USTR is an acronym for University Signature Times Roman, referring to a style of lettering (Times Roman) which has been widely used in signage on the University coordinate campuses and is now being introduced on the Twin Cities campus.



East Bank Campus Plan

■ Figure 1



KEY

- | | |
|------------------------|-------------------------------|
| ■ Ceremonial Entrance | Landscape Reinforcement |
| ● Articulated Entrance | i - Immediate Site |
| ▲ Pedestrian Entrance | a - Adjacent Site |
| — Existing Fencing | c - Contingent Site |
| - - - Proposed Fencing | r - Residual Site |

Location : East River Road at Oak Street



■ E1-r

Site Category : Residual

Site Description: Located near the Mississippi River, this site will be developed as a Ceremonial Entrance at the southeast corner of the campus along East River Road. Directional access to the East Bank will change in 1991 when the construction of the Motley Bypass will make this a more prominent Entrance. It will be characterized by monummentation similar in scale and character to the Pillsbury Memorial Gate.

Recommended Entrance Improvements:

Signage should be incorporated into the horizontal surfaces of the monummentation, using University Signature Times Roman (USTR) lettering.

Lighting should be used to illuminate the Entrance signage and landscape plantings. Pedestrian-scale lighting should be installed along East River Road and Oak Street between the Entrance and Fulton Street.

Plant Materials including coniferous and deciduous trees should be planted as a backdrop to the Entrance. Flowers and ground cover should be planted along the base of the monummentation.

Fencing may extend from the Entrance to Fulton Street along Oak Street and for a short distance toward Fulton Street, along East River Road. The fence should be similar to that which exists along University Avenue.

Funding Possibilities

Funding to develop this Entrance may come from Central Administration.

Location : Washington Avenue and Oak Street



● E2-c

Site Category : Contingent

Site Description: The Oak and Washington intersection is a major pedestrian and vehicular entrance to the East Bank campus. This area will be redeveloped as decisions are made regarding future land use and facility construction when Memorial Stadium is demolished. The development of a future project at this site will provide an excellent opportunity to establish an Articulated Entrance at this intersection.

Recommended Entrance Improvements:

Signage should be designed to welcome pedestrians and delineate the Entrance for motorists, using USTR lettering on a curved stone or masonry pylon.

Lighting associated with the Entrance should extend to Walnut Street along Washington Avenue and to Beacon Street along Oak Street. It should consist primarily of pedestrian-scale fixtures and signage illumination.

Plant Materials may include both coniferous and deciduous trees to complement the Entrance. Ornamental shrubs may be used along the base of any monummentation. Deciduous trees may extend along Oak Street extending to Beacon.

Fencing similar to that found along University Avenue may extend from the Entrance northward to Beacon Street and may appropriately define the Entrance for a short distance along Washington Avenue.

Funding Possibilities

This entrance should be developed as part of the large scale site development projects that will reshape the Memorial Stadium area.



● E3-i

Site Category : Immediate

Site Description: This Entrance at Arlington provides access to the heart of the Minneapolis East Bank campus from East River Road. Limited space will impact the scale of the Entrance development, but this site has enormous value as a visual and pedestrian linkage between the campus and the Mississippi River.

Recommended Entrance Improvements:

Signage will consist of a curved stone pylon with USTR lettering.

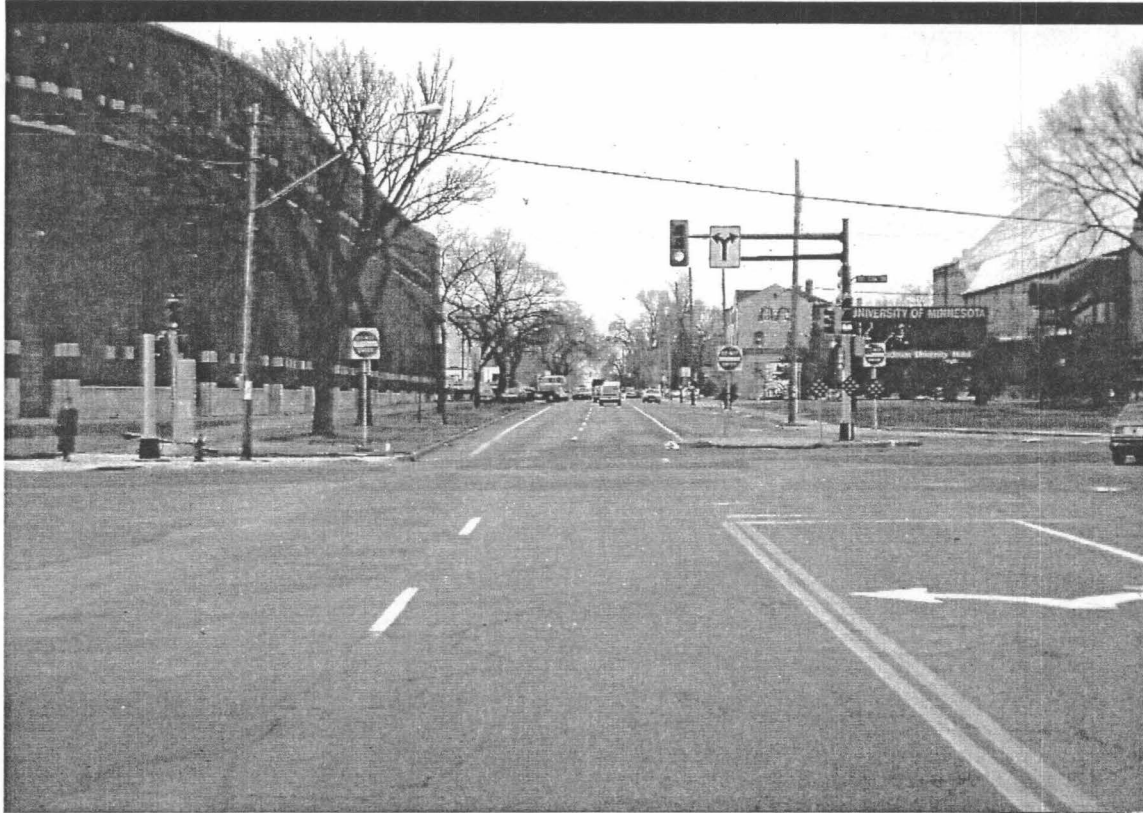
Lighting to illuminate the sign face will be installed as part of the Entrance development.

Plant Materials will include the extensive use of flowers and ornamental shrubs at this entrance. Some deciduous trees and coniferous background trees will be used to complement existing plants in the area, but visual access between the campus and the river will be maintained.

Funding Possibilities

Central Administration could fund this as one of the first Entrance sites developed on the East Bank campus.

Location : University Avenue and Oak Street



● E4-c

Site Category : Contingent

Site Description: Historically the gateway to University athletic facilities, the Oak Street/University Avenue intersection will retain its significance as a major Entrance to the redeveloped Memorial Stadium site. This site also plays an important role in defining and strengthening the eastern boundary of the East Bank campus, and extends that definition to the northern boundary of the academic core along University Avenue.

Recommendation Entrance Improvements:

Signage on both sides of University Avenue will be incorporated into elements of the Entrance development. Free-standing walls, arches, or other monumentation may be used to reflect the historical significance of this site.

Lighting scaled to pedestrian activities should be incorporated into the Entrance and may extend along Oak to Beacon Street, and on University Avenue to 19th Avenue.

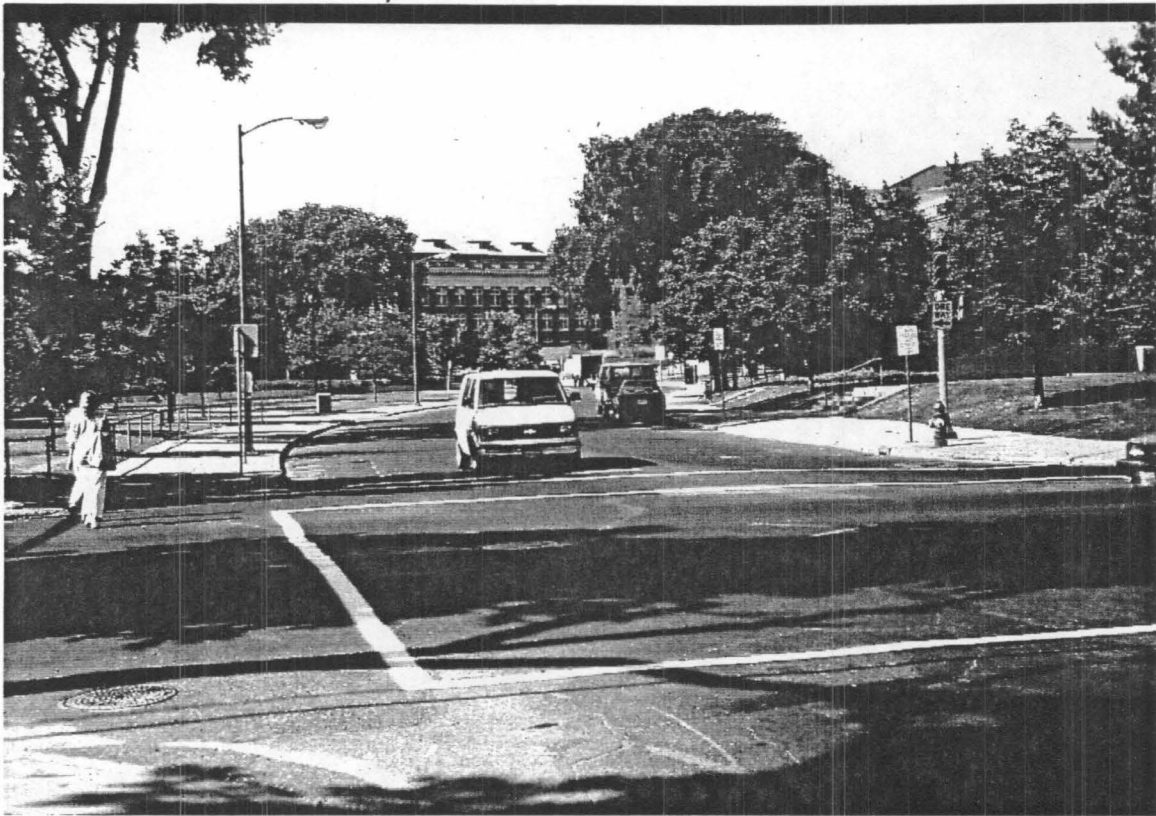
Plant Materials including to include deciduous and coniferous trees, shrubs, and ground covers, will be proposed for this Entrance, on both sides of University Avenue.

Fencing similar to that found along University Avenue may extend from the Entrance to Beacon Street along Oak Street, and on University Avenue to 19th Avenue.

Funding Possibilities

Funding for this Entrance could come from Capital Improvement money allocated for redevelopment of the Memorial Stadium area.

Location : University Avenue at Church Street



● E5-a

Site Category : Adjacent

Site Description: For many visitors and a great number of students, the Church Street Entrance at University Avenue provides their first impression of the Twin Cities campus. A formal Entrance developed on both the Armory and Bell museum sides of Church Street will add further definition to the University Avenue edge.

Recommended Entrance Improvements:

Signage may be developed in the form of curved stone pylons integrated with the fencing along University Avenue. USTR lettering will be used on the pylon to designate the Entrance.

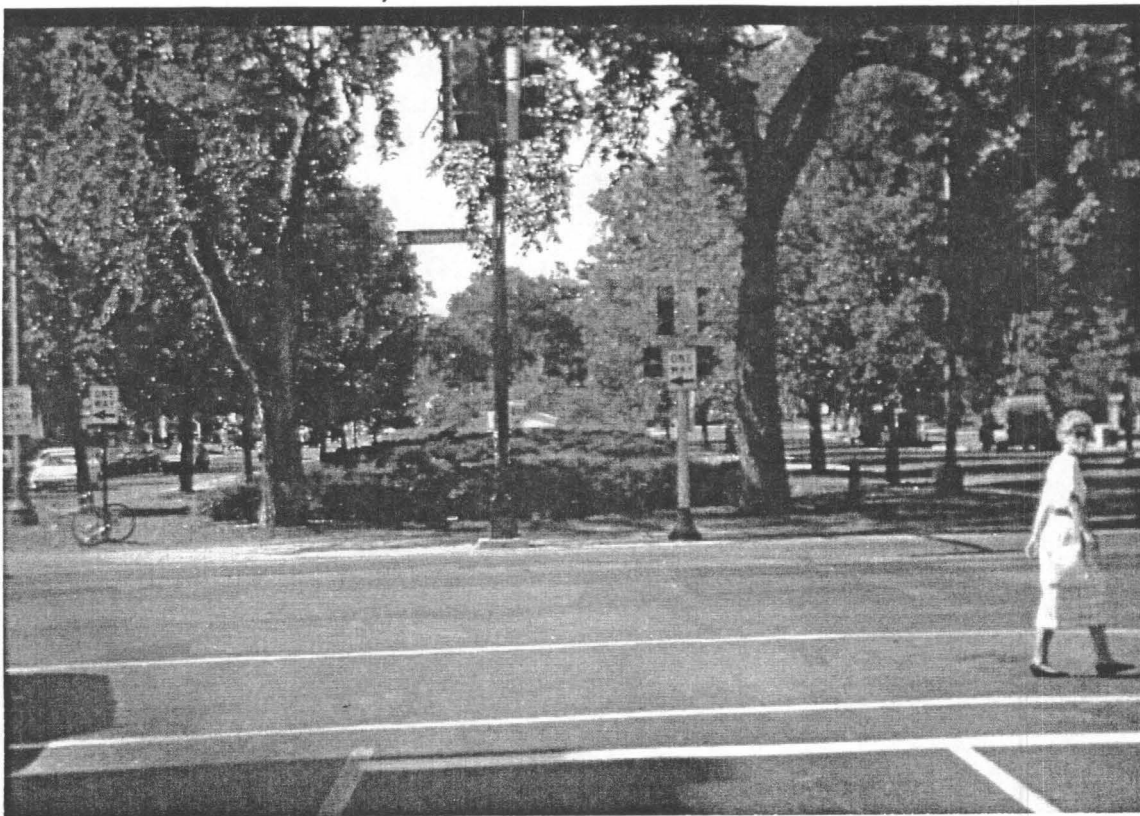
Lighting incorporated into the Entrance plan should illuminate the signage and provide a sense of security from the Entrance eastward along University Avenue to the 19th Avenue Pedestrian Entrance, and westward past Bell Museum to 16th Avenue.

Plant Materials might include backdrop plantings composed of coniferous trees, deciduous trees and coniferous base plantings.

Funding Possibilities

On the Armory side of Church Street, a portion of the funding from the Armory Remodeling project may be used to develop Entrance Monumentation and create a Memorial Plaza for students who have served their country. The Bell Museum side of the entrance could be funded through Central Administration sources in conjunction with the realignment of Church Street which will direct traffic eastward on Pillsbury Drive.

Location : University Avenue at Pleasant Street



● E6-i

Site Category : Immediate

Site Description: Pleasant Street is the central pedestrian and vehicular access road on the East Bank. This entrance at University Avenue is the most traveled of all the East Bank Entrances. A simple, Articulated Entrance evoking classic images of the collegiate environment is appropriate for this site.

Recommended Entrance Improvements:

Signage for this site will consist of a curved stone pylon with USTR Lettering. The pylon should be detailed to provide visual harmony with the surrounding architecture and fence elements.

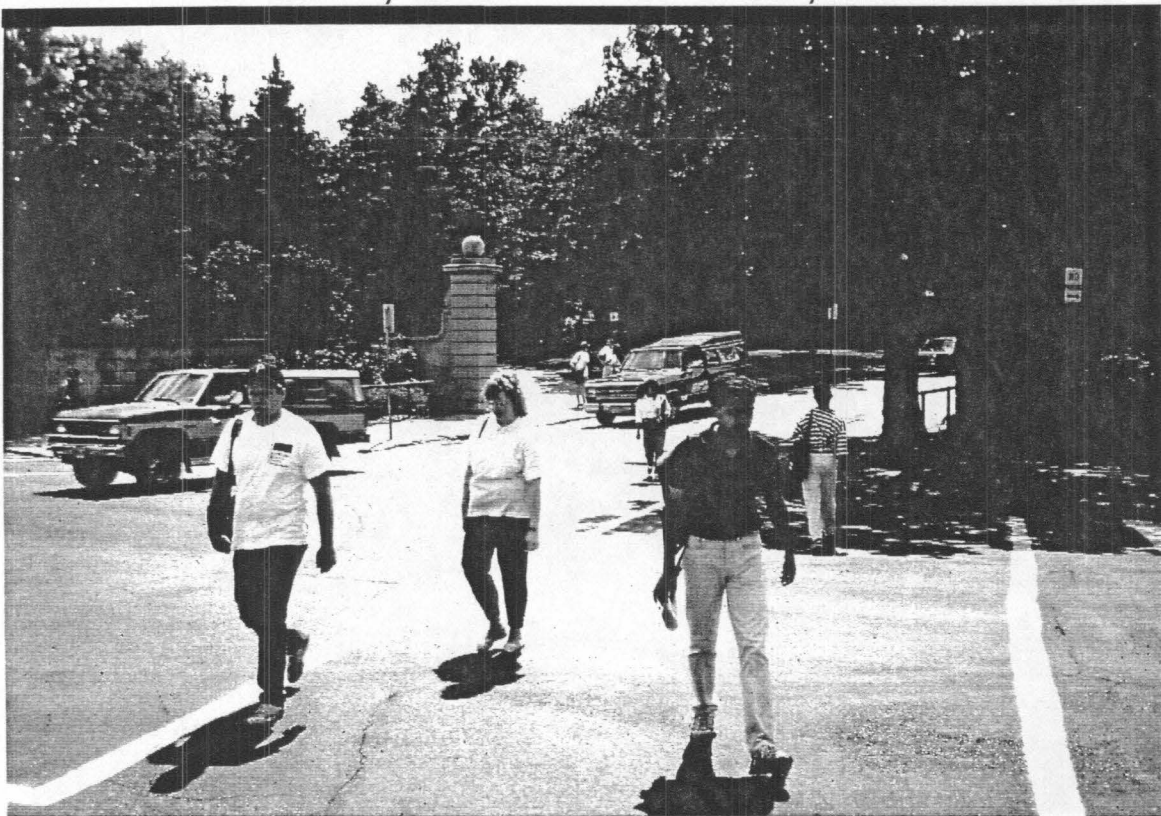
Lighting should be used to illuminate the pylon face and associated landscape plantings.

Plant Materials will be minimal considering the abundance of mature vegetation near the Entrance. Ornamental flowers along the pylon base may be all that is necessary.

Funding Possibilities

Central Administration may fund this Entrance development for construction during the Spring of 1990.

Location : University Avenue at Pillsbury Drive



● E7-r

Site Category : Residual

Site Description: During the early 1900's this site was, as depicted in the text, the Ceremonial Entrance to the University. The remaining monumentation and fencing serve as models for other East Bank Entrance development. While it would be difficult to restore the Entrance to its turn of the century grandeur, certain improvements should be made to recapture the historical significance of this Entrance.

Recommended Entrance Improvements:

Signage in the form of the USTR lettering should be installed on existing monument faces, announcing the Entrance.

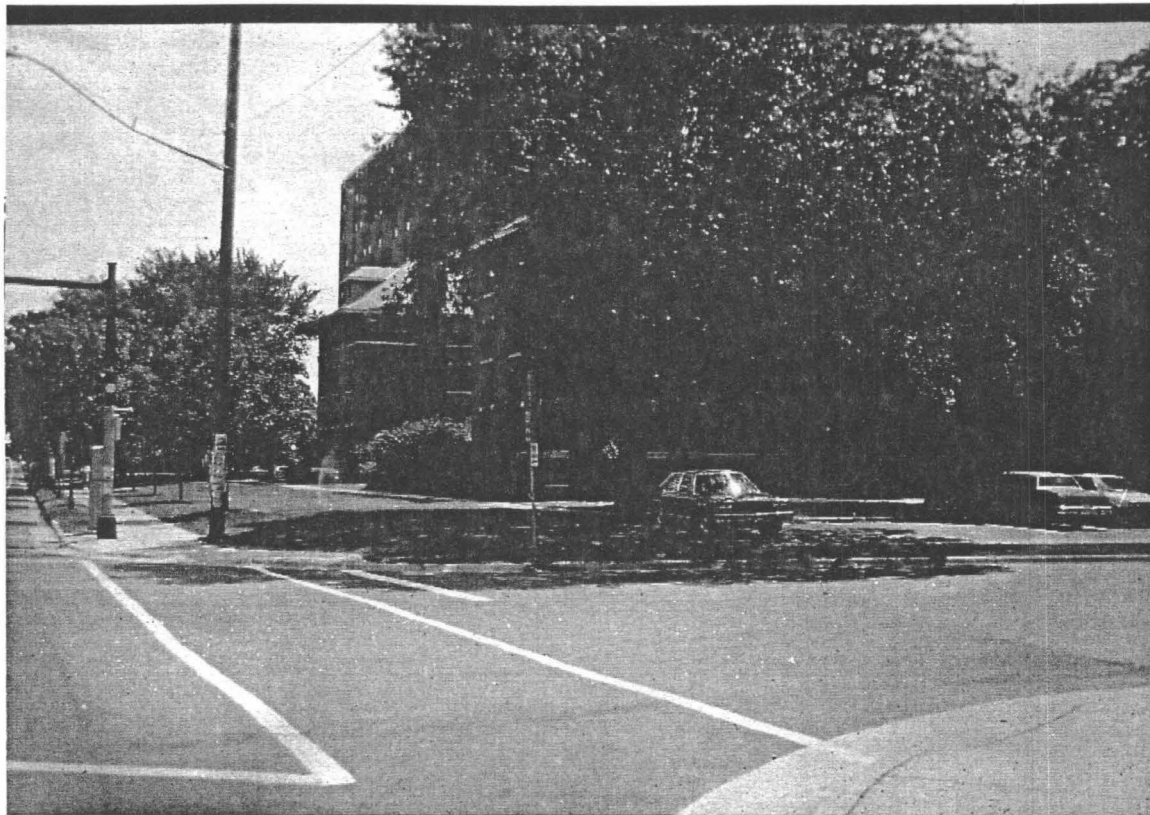
Lighting should illuminate the Entrance and related plantings.

Plant Materials should include coniferous shrubs and ground covers.

Funding Possibilities

These Entrance improvements could be funded from Central Administration Landscape Improvement funds, or as in the past, could be developed using funds donated for this specific purpose.

Location : University Avenue and 11th Avenue



■ E8-r

Site Category : Residual

Site Description: Approaching campus from the west, Sanford Hall is the first University building seen along University Avenue. Because it is isolated by railroad tracks and open space, this site lacks visual connection to the main campus. As a complement to the East River Road Entrance (E1-r) this site should be developed as a Ceremonial Entrance with Edge improvements designed to link Sanford Hall to the main campus.

Recommended Entrance Improvements:

Signage should be incorporated into the horizontal surfaces of the stone monumentation, consisting of the USTR lettering.

Lighting should illuminate the face of the monumentation with pedestrian lighting extending along University Avenue to Pillsbury Drive as a complement to other edge improvements.

Plant Materials may include backdrop and base plantings associated with the Entrance development. Deciduous trees should be planted along University Avenue from 11th Avenue to 13th Avenue.

Fencing may, as part of Edge improvements associated with this site, extend from the Entrance along University Avenue, connecting to and matching the existing fence at Pillsbury Drive.

Funding Possibilities

Landscape Improvement funds may be the only source of money to develop this site.

Location : Washington Avenue and Pleasant Street



■ E9-C

Site Category : Contingent

Site Description: Approaching the East Bank from the Washington Avenue bridge, this site has great potential as a major vehicular entrance. The character of Washington Avenue would change radically if a Light Rail Transit (LRT) line is developed on the bridge, providing an opportunity to develop a Ceremonial Entrance at this site.

Recommended Entrance Improvements:

Signage should be part of this Ceremonial Entrance. USTR lettering will be incorporated into the monumentation of the Entrance.

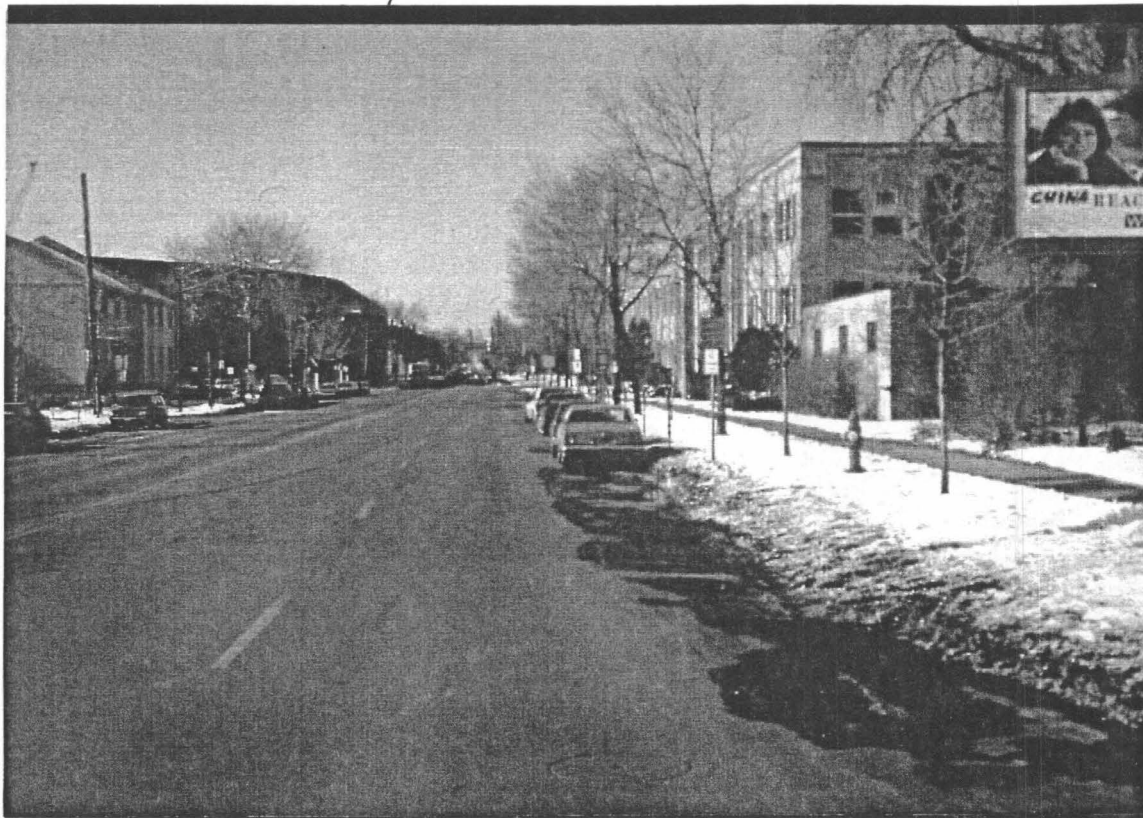
Lighting will be used to bathe the face of the Entrance.

Plant Materials should be installed along the south side of the street. A mixture of coniferous and deciduous trees with ornamental shrubs will be used at an appropriate scale to delineate the Entrance.

Funding Possibilities:

This Entrance would be funded as part of the LRT project and its East Bank Station stop.

Location : University Avenue near Ontario Street



■ E10-c

Site Category : Contingent

Site Description: Located east of Oak Street on University Avenue, this site will become a prominent Entrance when the Motley Bypass is constructed. This project could be a catalyst to develop the site as a Ceremonial Entrance.

Recommended Entrance Improvements:

Signage should be developed at this site using USTR lettering integrated with stone or stone and masonry monumentation. This Entrance must be scaled and designed for vehicular traffic approaching the campus from the Motley Bypass and University Avenue.

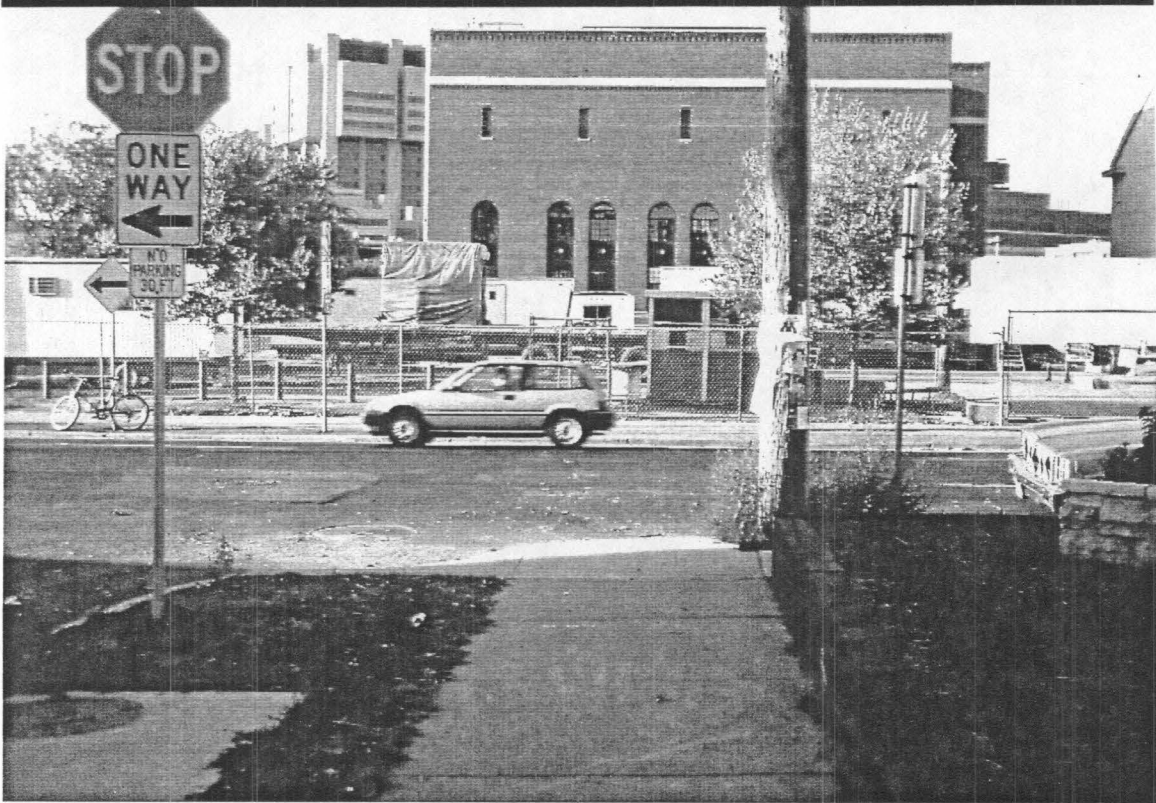
Lighting to illuminate this Entrance in a manner similar to other Ceremonial Entrances, is a necessary requirement.

Plant Materials will be introduced as backdrop plantings and formal beds will be maintained in front of the monumentation.

Funding Possibilities:

This Entrance could be a University contribution to the Motley Bypass project, with funding allocated through Central Administration; or landscape dollars for this City project may be available for such use.

Location : University Avenue at 19th Avenue



▲ E11-a

Site Category : Adjacent

Site Description: This Pedestrian Entrance is an example of how Capital Improvement projects can help contribute crucial pieces to the comprehensive Entrance network described in this document. In this case, partial funding has been allocated from the construction budget of the Recreational Sports Facilities project to develop this important Entrance. Additional money will be needed to complete the project as depicted in the Landscape Architects' Plan.

Entrance Improvements:

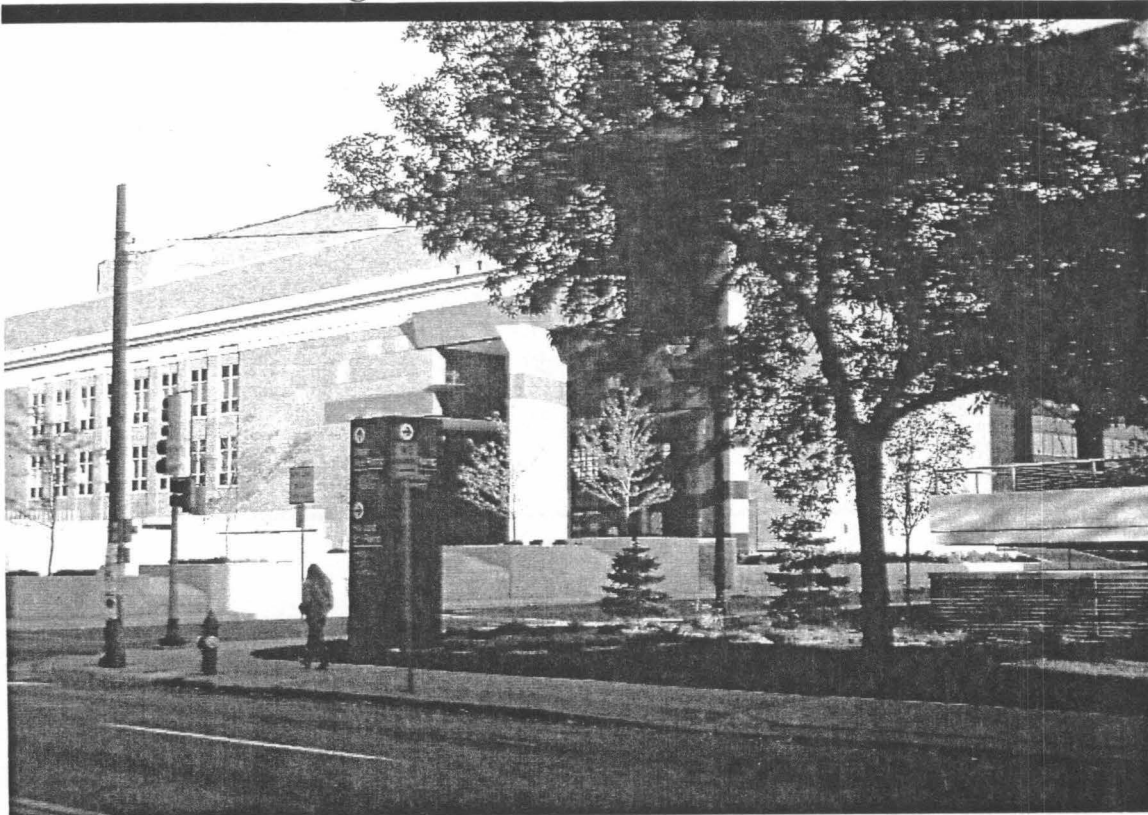
Lighting is incorporated into the landscape plan in the form of pedestrian scale globe lights and step/walkway lights.

Plant Materials will be a major feature of this Entrance. A variety of ornamental coniferous and deciduous trees, shrubs, hedges, and ground covers are proposed for the site.

Fencing is also proposed as part of the site development. This fencing is an important element in the plan and could extend the Armory fence toward Oak Street along University Avenue.

Cost in 1989 Dollars:

At this time, a portion of the \$100,000 allocated for site improvement will be available to develop this site, however, Entrance development costs for this Entrance are expected to be approximately \$480,000.



▲ E12-C

Site Category : Residual

Site Description: Sometime within the next three years, the Washington Avenue Ramp will be demolished as a result of continuing structural deterioration. Part of the site planning to redevelop the area should include the establishment of a Pedestrian Entry which reinforces the strong pedestrian movement occurring around the Electrical Engineering and Computer Science plaza.

Recommended Entrance Improvements:

Signage should be incorporated into this Entry in a limited way, and will be scaled to pedestrian movement.

Lighting should be used to delineate the entry and to visually connect this site to the Electrical Engineering and Computer Science plaza, and to draw students northward toward the new Earth Science and Materials Engineering Building.

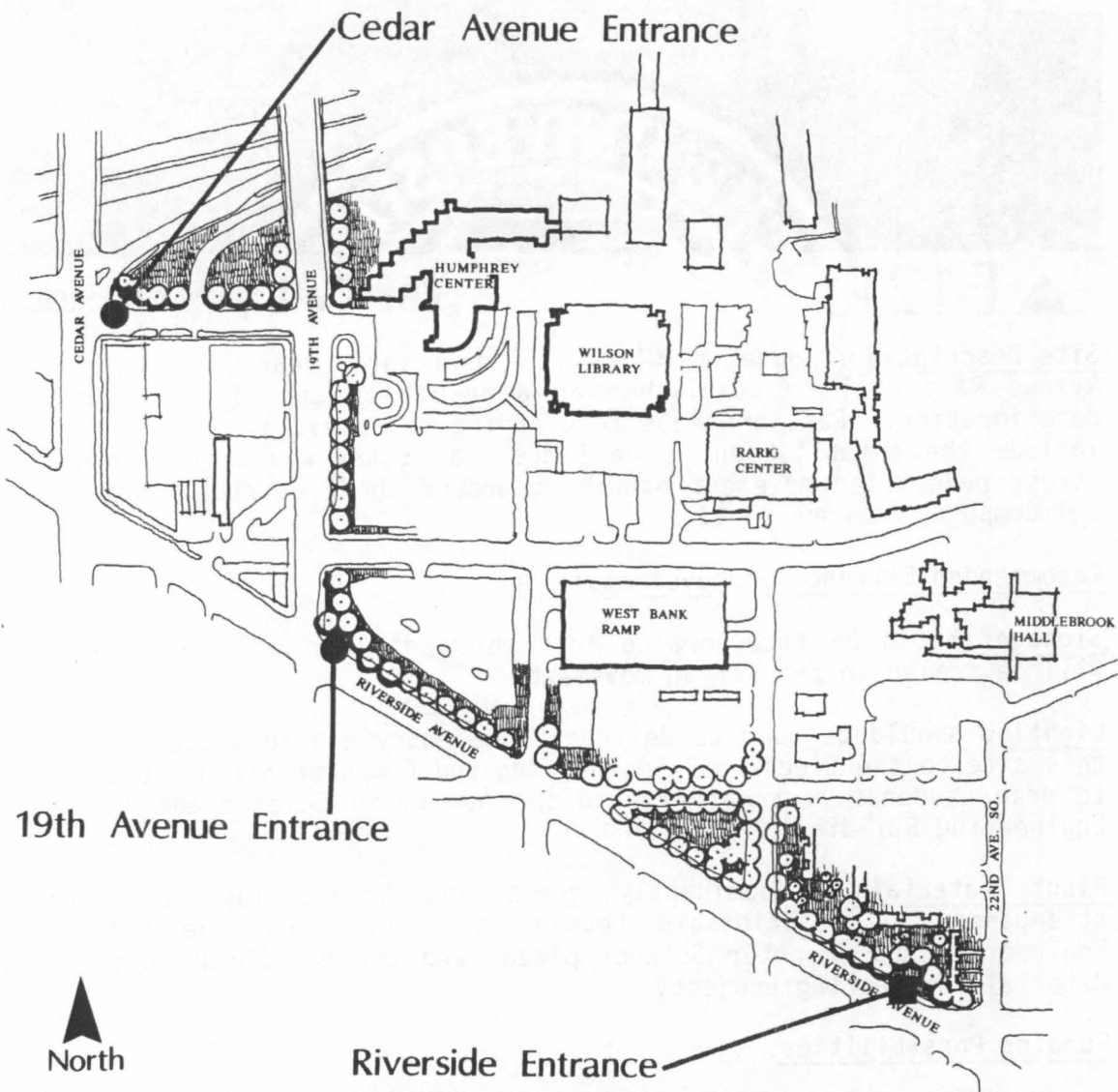
Plant Materials predominantly grass and trees, may be used to strengthen the relationship between this site and the Electrical Engineering and Computer Science plaza, and the new Earth Science and Material Engineering project.

Funding Possibilities:

Funding for the development of this area into a Pedestrian Entry will be a requirement for the project which occupies the site where the ramp is now.

Minneapolis Campus - West Bank

The perceived boundaries of the West Bank campus are clearer and more logical as compared to the East Bank campus. A line of demarcation can be drawn along Riverside Avenue and 19th Avenue separating academic from other West Bank land uses. As a contained land mass, the West Bank campus requires a simple, straightforward Implementation Plan to establish or reinforce campus Entrances and Edges. On the West Bank it is essential to maintain the 19th Avenue Edge across the bridge between the Law Building and the Humphrey Center. This Edge will serve as a line of demarcation for north/south traffic on 19th Avenue. Figure 2 (page 27) shows recommended Edge improvements required under the Implementation Plan, and divides them into the four implementation categories.



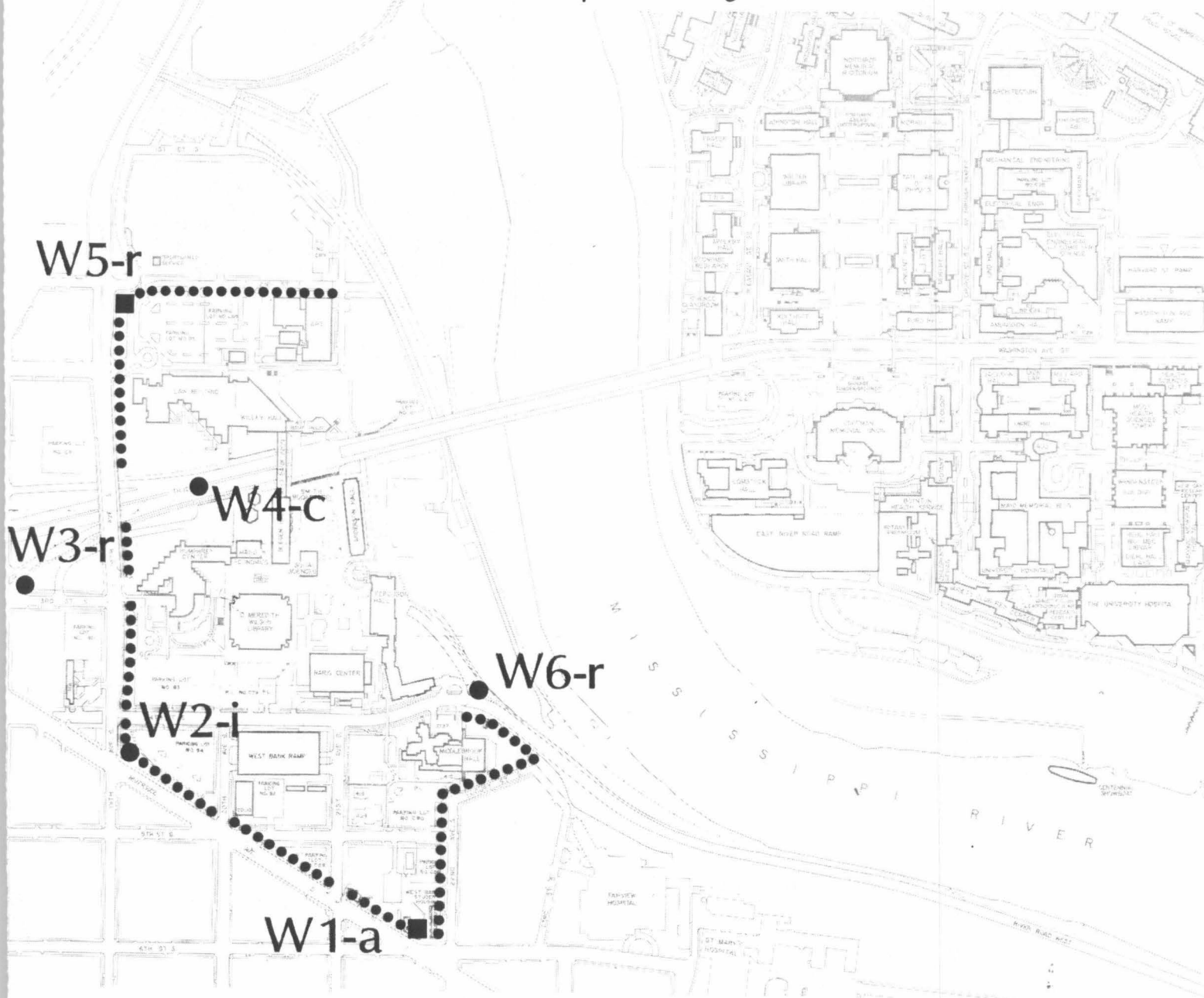
Concept Plan - West Bank South Campus

West Bank Campus Plan

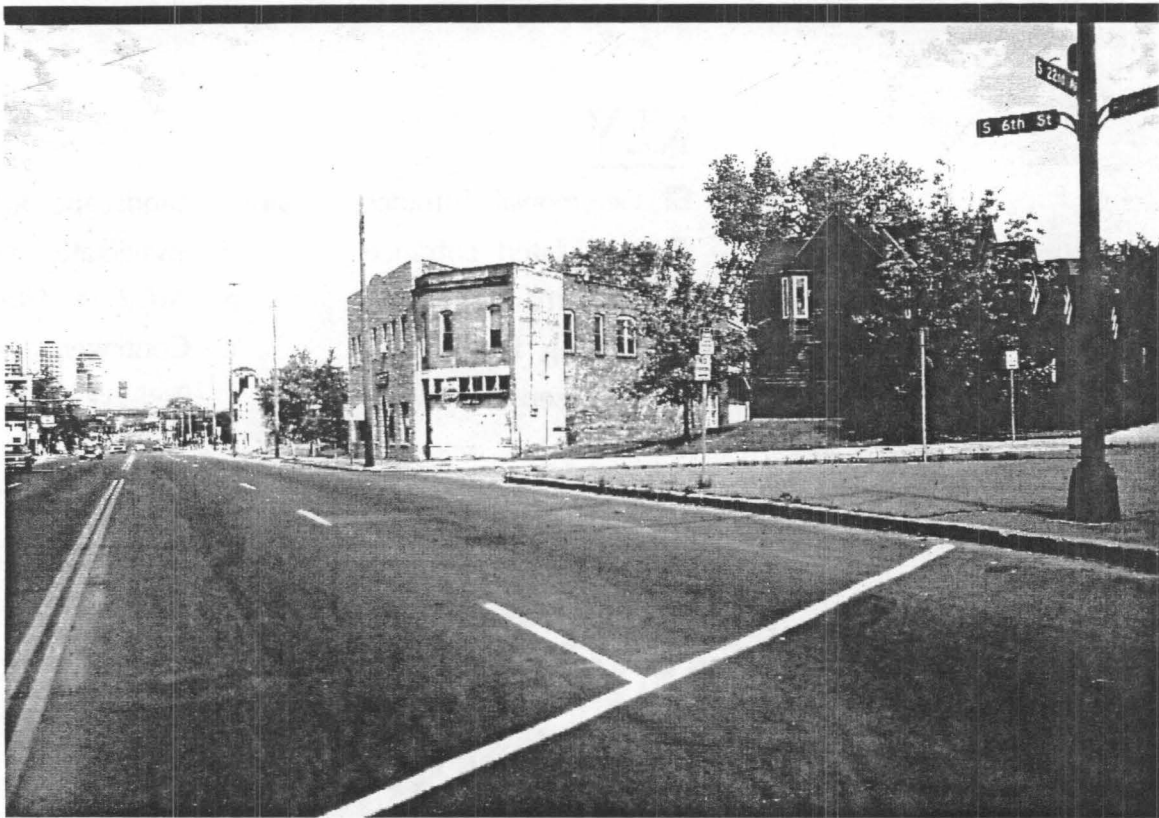
Figure 2

KEY

- Ceremonial Entrance
- Articulated Entrance
- ▲ Pedestrian Entrance
- Existing Fencing
- - - Proposed Fencing
- Landscape Reinforcement
- i - Immediate Site
- a - Adjacent Site
- c - Contingent Site
- r - Residual Site



Location : Riverside Avenue at 6th Street



■ W1-a

Site Category : Adjacent

Site Description: This site will, at some point in the future, be developed as a medium density housing complex to help alleviate the high demand for West Bank student housing. The redevelopment of this site will provide an opportunity to define it as a Ceremonial Entrance and to strengthen Riverside Avenue as the "Loop Road" concept prescribes by denoting the south edge of the West Bank campus.

Recommended Entrance Improvements:

Signage, as a part of this Entrance, will be incorporated into the horizontal surfaces of the monumentation. USTR lettering will be used to designate the entrance.

Lighting should be used to illuminate the monumentation as in other Ceremonial Entrances. Pedestrian-scale lighting should be installed to Middlebrook Hall on 22nd Avenue and on Riverside Avenue to 20th Avenue.

Plant Materials around the Entrance may include dense coniferous trees and hedging extending from the Entrance along Riverside Avenue to 21st Avenue and along 22nd Avenue to 5th Street. This development will further define and strengthen the Edge along Riverside Avenue.

Funding Possibilities:

This Entrance development could be funded as part of the allocation to construct housing at this location.



● W2-i

Site Category : Immediate

Site Description: This site has great potential as an Articulated Entrance to the West Bank campus. The highly traveled intersection provides an excellent view of the campus and there is sufficient space available for the Entrance to express itself in terms of scale and proportion.

Recommended Entrance Improvement:

Signage for this Entrance could be a curved precast or stone pylon relating to architectural elements of the West Bank campus. USTR lettering will be used on the horizontal surface of the pylon.

Lighting should be installed to illuminate the pylon. Pedestrian lighting may extend from the Entrance along Riverside to 20th Avenue and along 19th Avenue to 4th Street.

Plant Materials will be installed to complement the Entrance and strengthen adjacent Edges along 19th and Riverside Avenues. Small-scale plantings near the pylon should be chosen to preserve views to the campus. Deciduous trees and hedging should be planted as needed along 19th and Riverside Avenues.

Funding Possibilities:

Central Administration could, as early as the first half of 1990, fund the cost of developing this site into one of the first defined Entrances on the West Bank campus.

Location : Cedar Avenue and 3rd Street



● W3-r

Site Category : Residual

Site Description: The intersections of Cedar Avenue and 3rd Street and 19th Avenue and 3rd Street are transition points for motorists and pedestrians arriving on campus from downtown Minneapolis, Cedar Avenue, 19th Avenue, and 3rd Street. A strong Edge along the east side of 19th Avenue extending westward on the north side of 3rd Street will provide an essential link in the Entrance and Edges system that defines the perimeter of the West Bank campus.

Recommended Entrance Improvements:

Signage - USTR lettering on a simplified cast stone pylon will be installed to designate the Entrance.

Lighting should include signage illumination and pedestrian lighting extending east along 3rd Street, and on 19th Avenue between the bridgehead and 4th Street.

Plant Materials are needed along 19th Avenue and 3rd Street to strengthen the Edge. Hedging and deciduous trees should be planted on 3rd Street and along 19th Avenue between the bridgehead and 4th Street. Backdrop plantings at the Entrance may include coniferous trees, ornamental shrubs, and flowers in front of the pylon.

Funding Possibilities:

Funding to develop this site could come from Central Administration or Landscape Improvement allocations.

Location : Washington Ave. below the 19th Ave. Bridge



● W4-c

Site Category : Contingent

Site Description: Approaching the West Bank campus eastbound on Washington Avenue, this is a natural site for an Articulated Entrance. Framed by buildings on both sides and having a bridge structure in the background, the site will lend itself to a multitude of Entrance development options, as decisions regarding the future impact of Light Rail Transit are made during the next five years.

Recommended Entrance Improvements:

Signage may be integrated into the design of the West Bank LRT station stop at this location.

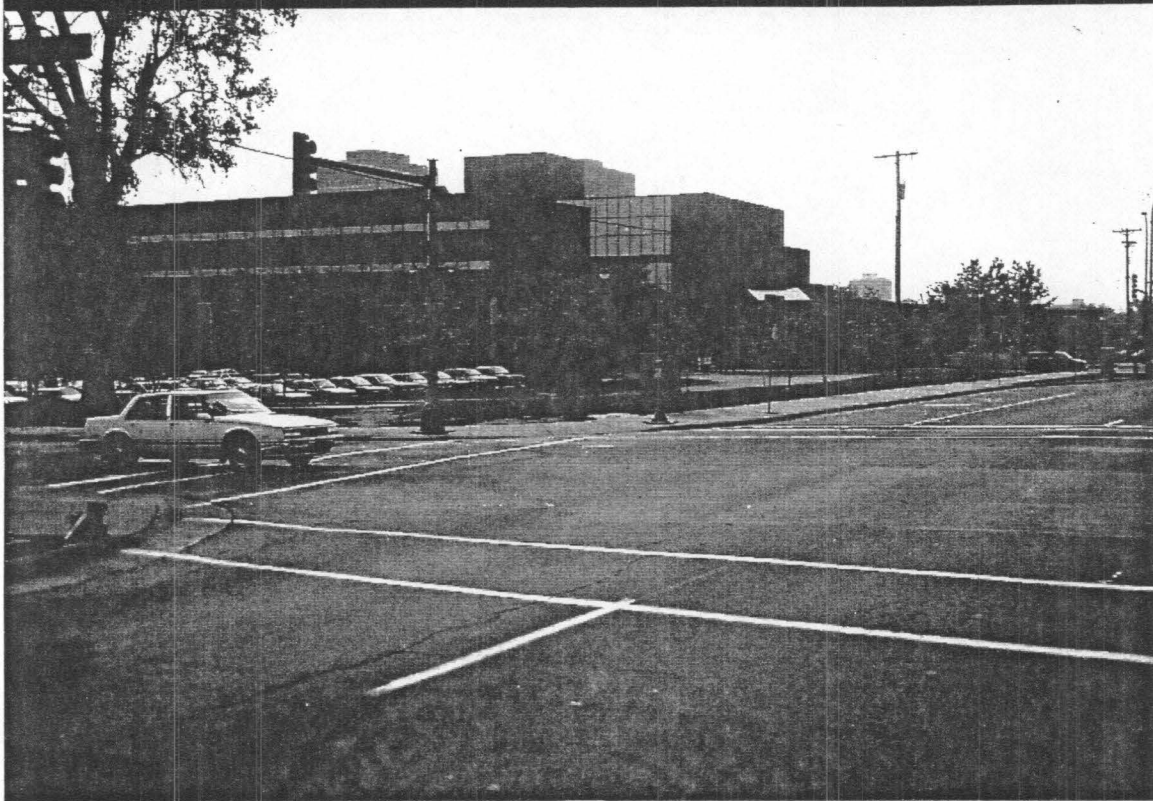
Lighting should bathe the area so as to provide both a margin of safety for vehicular traffic and security for the large number of students using transit to access the East and West Bank campuses.

Plant Materials should consist of trees and ground covers to soften both the hard horizontal and vertical elements that dominate this vicinity of campus.

Funding Possibilities

This entrance could be designed and funded as part of the West Bank LRT station stop.

Location : 10th Avenue and 2nd Street



■ W5-r

Site Category : Residual

Site Description: Driving or walking across the 10th Avenue Bridge, this site offers glimpses of the Law School and other campus buildings. A substantial, well defined Ceremonial Entrance is appropriate at this site to complete the northern portion of the West Bank Entrance and Edges network. The site may be impacted by right-of-way limitations which can normally be negotiated during the development process.

Recommended Entrance Improvements:

Signage - As in other Ceremonial Entrances, monumentation with USTR lettering will be used in the site development. The height and scale of the signage and monumentation will be critical at this site.

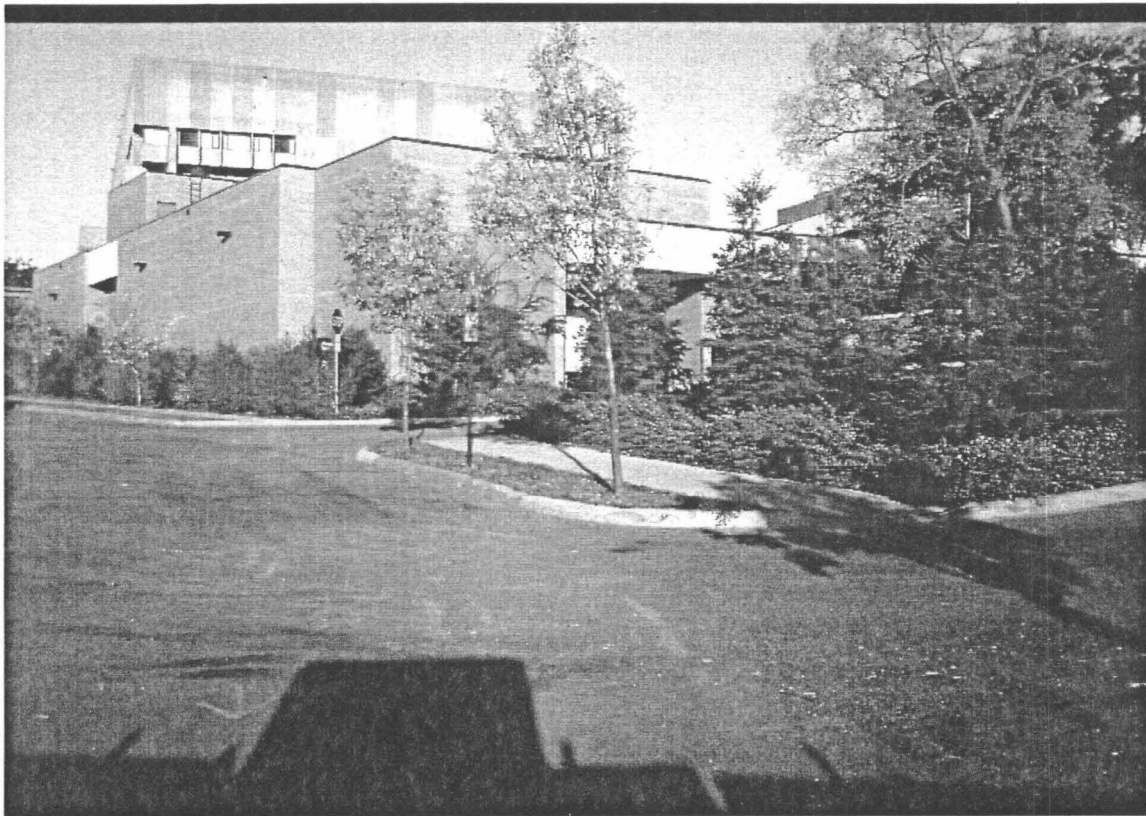
Lighting should be used to illuminate the Entrance and could be used to emphasize pedestrian movement from the Entrance southward along 19th Avenue to the bridgehead.

Plant Materials at the Entrance will include a full array of coniferous and deciduous trees, ornamental shrubs, and flowers to reinforce the 19th Avenue Edge. Deciduous trees and hedging will be planted between the Entrance and the bridgehead as needed to strengthen that Edge.

Funding Possibilities:

Money could be allocated from Central Administration sources to develop this Entrance or may be part of a separate Entrance and Edges development request for a biannual appropriation.

Location : West River Road at 22nd Avenue



● W6-r

Site Category : Residual

Site Description: With the Great River Road project now under construction and certain to carry higher traffic volumes in the future, this Entrance will become more than a "back door" to the West Bank campus. A modest but well-defined Articulated Entrance is needed at this site to provide the remaining link in the network of West Bank Edges and Entrances.

Recommended Entrance Improvements:

Signage should consist of USTR lettering on a simplified cast stone and masonry pylon face.

Lighting will be installed to illuminate the Entrance signage and surrounding plant materials.

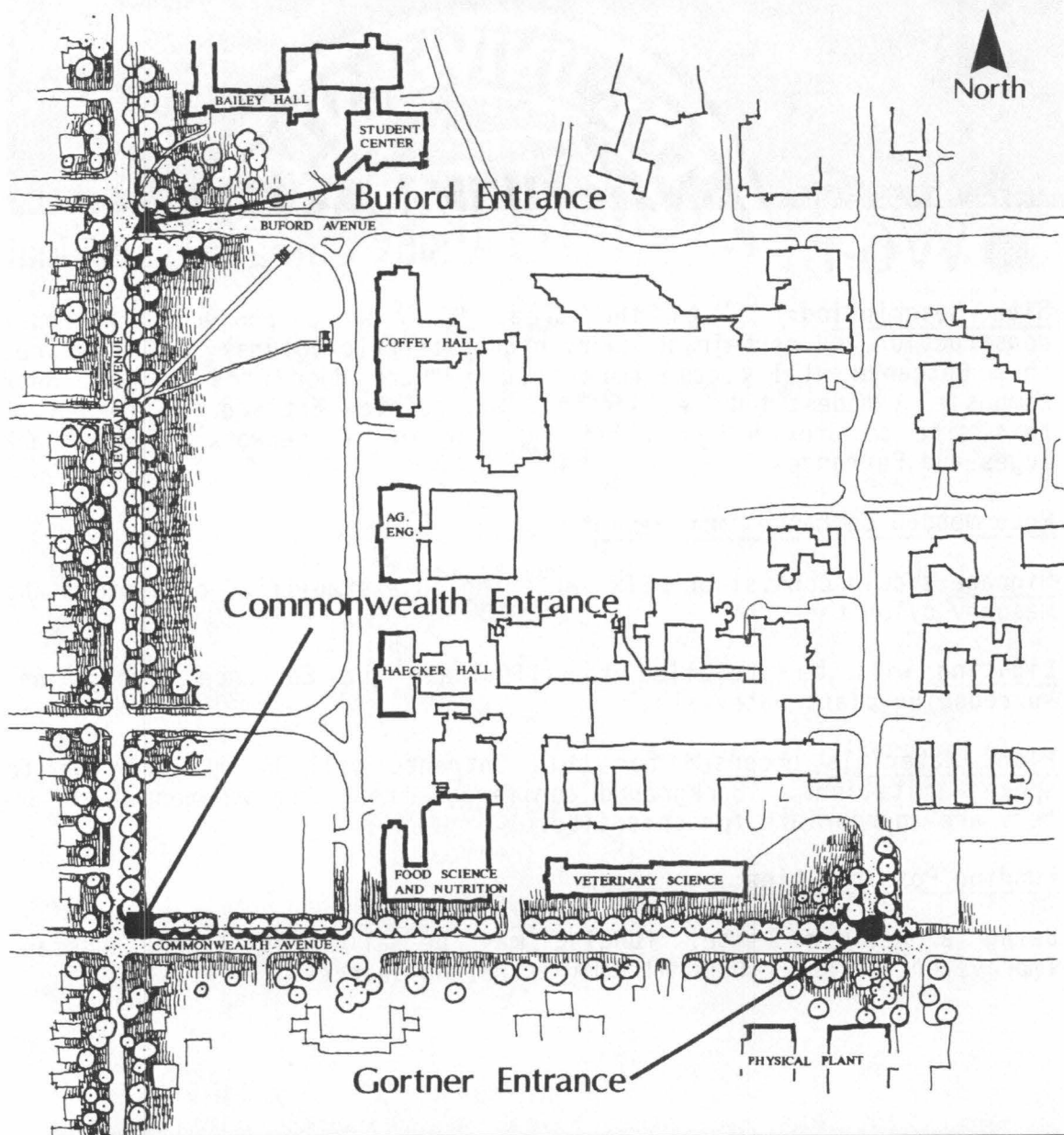
Plant Materials proposed for this Entrance will be minimal due to space limitations. Background coniferous trees and ornamental shrubbery are appropriate for this site.

Funding Possibilities:

Being a residual site, funding may be allocated from Landscape Improvement or other Central Administration sources.

St. Paul Campus

In contrast to the Minneapolis campus, the St. Paul campus has, along its north and east perimeter, a decidedly rural quality. As a land mass, the campus is more or less evenly split between area devoted to academic infrastructure and open field plot lands. Historically, open space has provided a line of demarcation for the St. Paul campus, separating it from adjacent neighborhoods to the north and west, and from other public lands to the east. The vast amount of open space at the perimeter with its associated research activities, will play an important role in determining the nature of the Entrance and Edge development that occurs on campus. By contrast, Entrance and Edge development in the southern part of the campus will be designed to integrate the campus into the fabric of the surrounding neighborhoods. Recommended Edge improvements adopted with this Implementation Plan and campus Entrance locations are shown in Figure 3 (page 35).

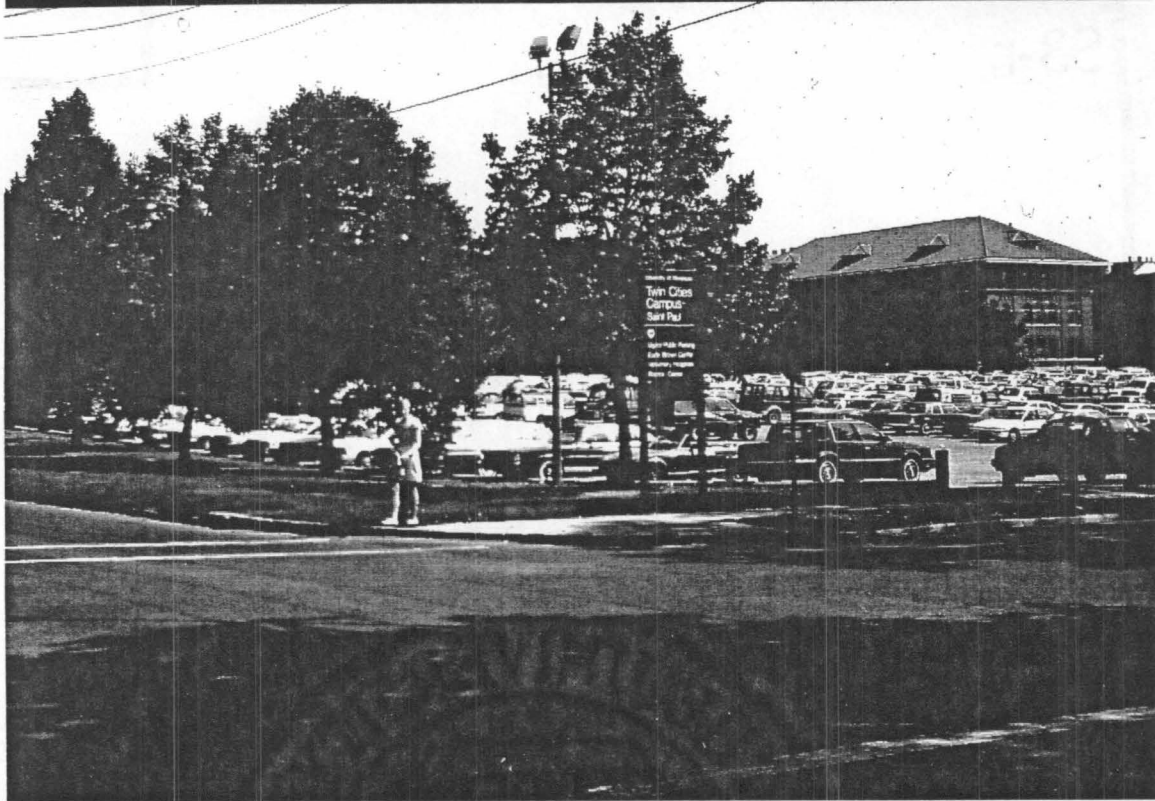


Concept Plan - St. Paul South Campus

■ Figure 3



Location : Cleveland and Commonwealth



■ S1-i

Site Category : Immediate

Site Description: Prominently located at the southwest corner of the campus' academic core, the site offers excellent views of campus buildings to the north and east. The site is ideally suited to become a Ceremonial Entrance.

Recommended Entrance Improvements:

Signage will be incorporated into the horizontal surfaces of the Entrance monumentation. USTR lettering will designate the Entrance.

Lighting should be used to illuminate the entrance and the plant materials surrounding the monumentation. Pedestrian lighting may extend from the Entrance northward to Carter Avenue along Cleveland, and eastward along Commonwealth.

Plant Materials should be a substantial complement to this Entrance. Backdrop plantings of ornamental deciduous trees will surround the monumentation, and flowers should be planted along the base. New retaining walls with Hackberry trees and coniferous shrubbery are planned along Commonwealth Avenue extending to Eckles Avenue.

Funding Possibilities

Entrance development costs for this site will be provided by Central Administration. This will be the first Entrance site funded for development on the St. Paul campus.

Location : Cleveland at Folwell



● S2-a

Site Category : Adjacent

Site Description: Folwell Avenue provides east/west access to the north side of the St. Paul campus. An Articulated Entrance at this intersection will direct motorists traveling on Cleveland Avenue, strengthen the western Edge of the campus, and reduce congestion on Cleveland Avenue by encouraging the use of a northern Entrance for southbound motorists regardless of their ultimate destination.

Recommended Entrance Improvements:

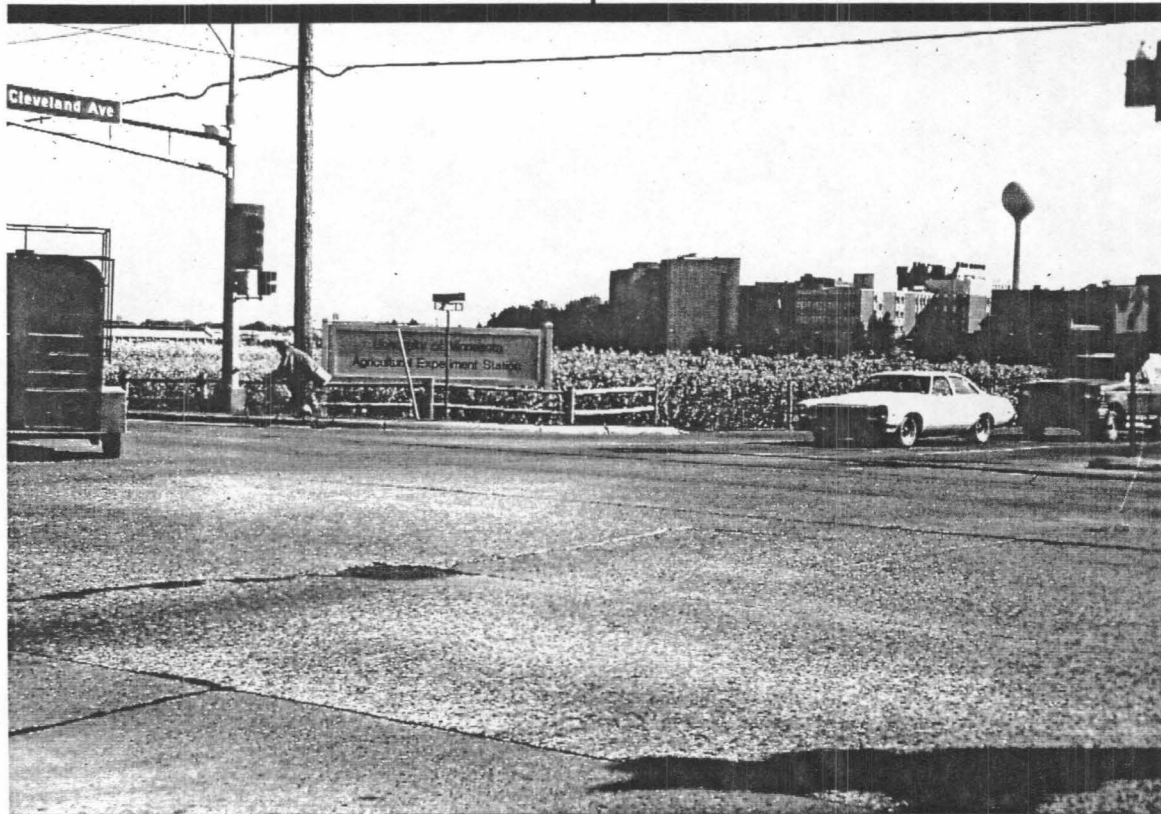
Signage - A curved stone and masonry pylon should be installed to designate the Entrance, using USTR lettering.

Lighting should be installed to illuminate the signage. Pedestrian lighting should extend from the Entrance to Dudley avenue along Cleveland Avenue.

Plant Materials could be minimal at this Entrance, consisting only of ornamental shrubbery and flowers. Ornamental trees may be planted as backdrop plantings behind the pylon.

Funding Possibilities

Site development could be allocated from Central Administration sources.



■ S3-r

Site Category : Residual

Site Description: The Ceremonial Entrance development for this site will replace an existing wooden sign which designates the Agricultural Experiment Station. Monumentation will give the site a stronger image relating to the entire Twin Cities campus. This site is a crucial component of the St. Paul campus Entrance and Edges system; it is located at a heavily-traveled intersection and has a very high degree of exposure.

Recommended Entrance Improvements:

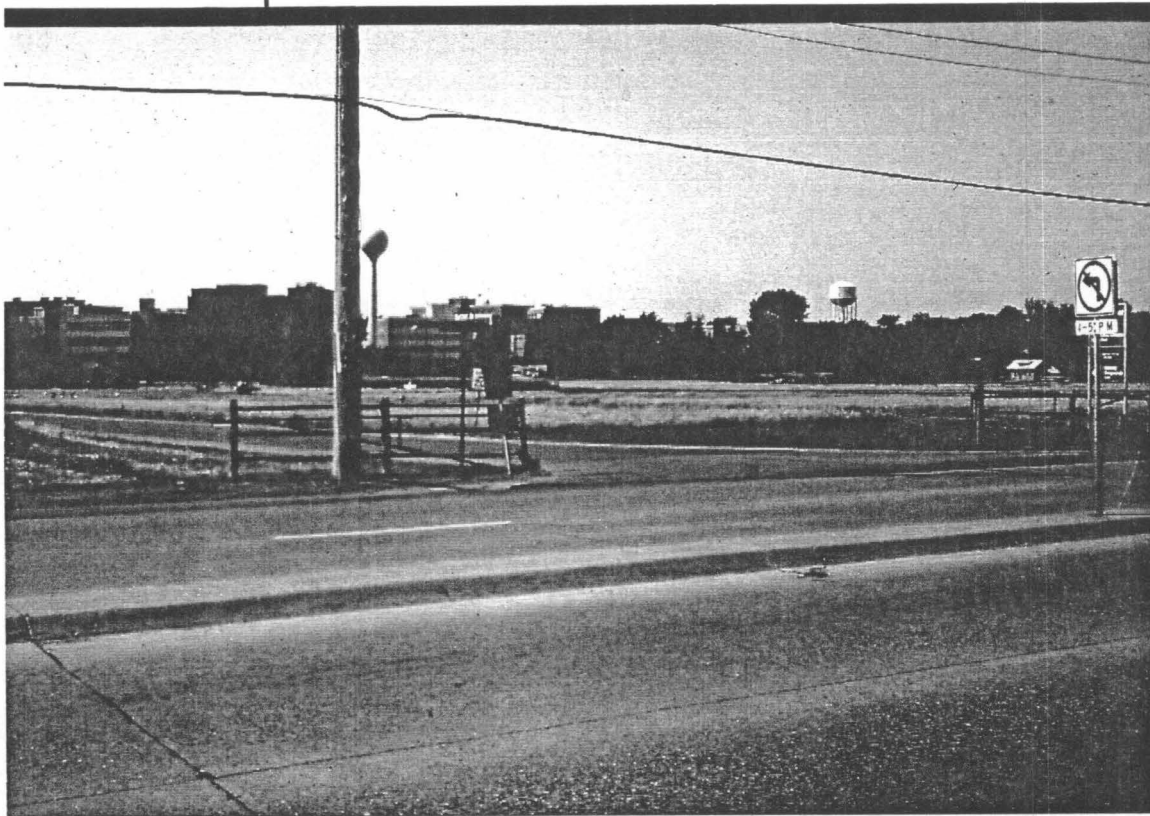
Signage will be part of the monumentation at this Entrance. USTR lettering will be used in the horizontal panels of the stone and masonry surface.

Plant Materials around the Entrance will need to be elevated in order to bring the monumentation up to a level that is easily seen by passing motorists. Some backdrop plantings to include coniferous trees and base plantings could be installed to frame the Entrance monumentation. The existing post and wire fence at the site may be incorporated into the Entrance and would define the campus edge at this corner.

Funding Possibilities

Landscape improvement or other Central Administration monies might be a source of funding to develop this Entrance, but so could a horticulture fundraising effort.

Location : Larpenteur at Gortner



● S4-r

Site Category : Residual

Site Description: Gortner Avenue is the only internal north/south road that runs the entire length of the St. Paul campus. For a large number of students and staff, it provides access to major campus building and parking destinations. Recognizing its importance to the overall campus roadway system, this site will be developed as an Articulated Entrance.

Recommended Entrance Improvements:

Signage will be incorporated into the curved stone and masonry pylons that will mark the Entrance. USTR lettering will be incorporated into pylon face panels.

Lighting will be limited to that which illuminates the pylons.

Plant Materials will be installed near the pylons; but will be minimal so as to minimize their impact upon the plotlands and the ongoing research that occurs in this area of the campus.

Funding Possibilities:

Funding for this residual site could come from Central Administration or as in the case of the Folwell gardens, from donated money and materials. It should be completed when the County improves the intersection.

Location : Randall and Buford



■ S5-r

Site Category : Residual

Site Description: The Brown Continuing Education Center draws a large number of visitors to the St. Paul campus, many of whom enter and exit the campus at this site. In addition, Randall Avenue carries a large number of students moving back and forth from the Fairgrounds parking lot. A Ceremonial Entrance at this site is appropriate considering its level of public exposure.

Recommended Entrance Improvements:

Signage to designate the Entrance using USTR lettering will be incorporated into the monumentation.

Lighting plays an important role, making the Entrance visible for night students and Extension visitors. It should be designed to provide maximum security for pedestrians.

Plant Materials around the Entrance will include backdrop coniferous and deciduous trees along with coniferous shrubs and flowers in front of the monumentation.

Funding Possibilities:

Central Administration could fund this Entrance development or it may be funded as part of Ramsey County's proposed LRT station stop along its northwest corridor.



● S6-r

Site Category : Residual

Site Description: As a southern complement to the north Entrance at Gortner and Larpenteur, this site will be developed as an Articulated Entrance primarily designed for motorists entering the campus from the east and west.

Recommended Entrance Improvements:

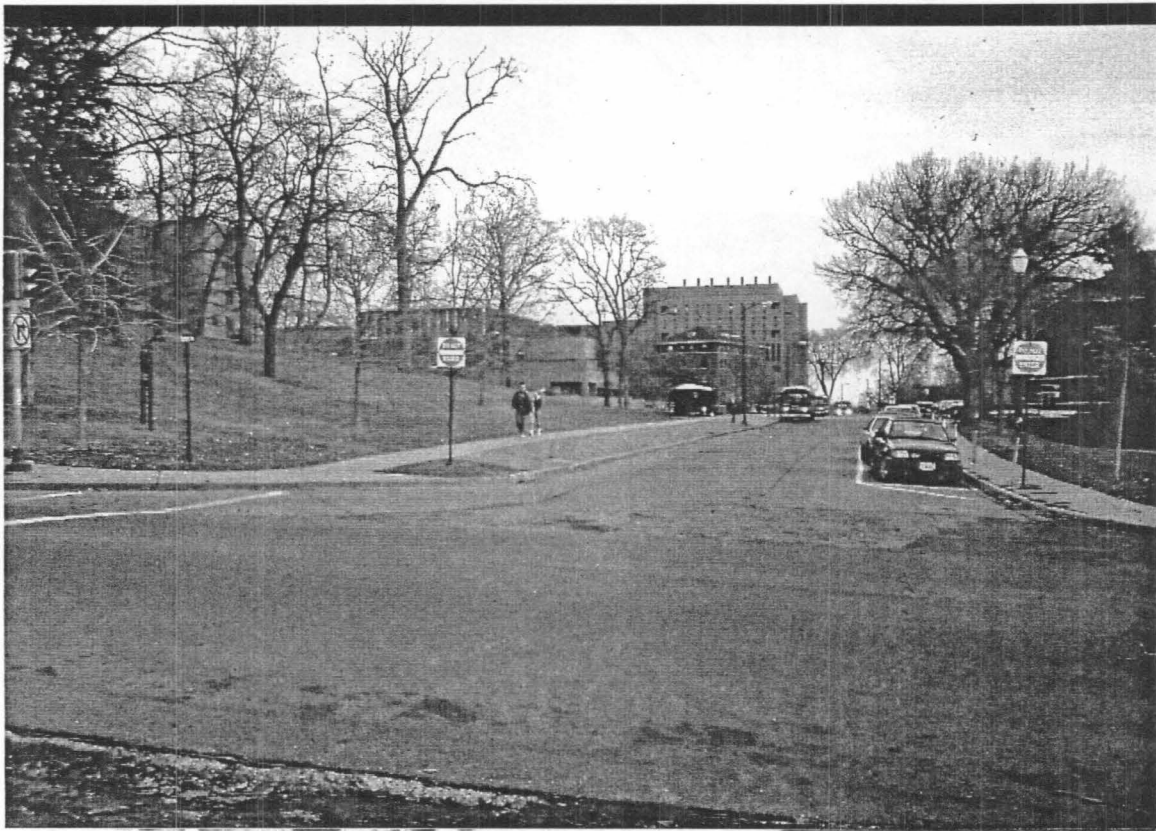
Signage will be incorporated into the curved stone and masonry pylons that will mark the Entrance. USTR lettering will be in the pylon face panels.

Lighting will be limited to that which illuminates the pylons.

Plant Materials will be installed near the pylons, consisting of low shrubbery and flowers.

Funding Possibilities

Funding for this residual site will depend upon the availability of Central Administration money for landscape improvement.



▲ S7-a

Site Category : Adjacent

Site Description: Buford Avenue west of Eckles could undergo significant change if the Transitway turnaround is developed adjacent to the Student Center as proposed. This project would provide the opportunity to formalize this site as a Pedestrian Entrance when vehicular traffic is removed from Buford Avenue.

Recommended Entrance Improvements:

Signage should be incorporated into the curved stone and masonry pylons that will identify the Entrance. USTR lettering will be used on the face of the pylons for this purpose.

Lighting should be installed to illuminate the Entrance signage. Pedestrian lighting should be installed on both sides of "Buford" extending from the Entrance to Eckles.

Plant Materials should frame the Entrance. Dense coniferous background plantings, flowers, and low ornamental shrubs should be planted around the pylons.

Funding Possibilities

Entrance development funds could be solicited through a donation program.

The Vision 2000 Planning Strategy

The purpose of this office's Vision 2000 Planning Strategy is to insure that the entire University community commits to and stays focused on the goal of creating a high quality campus environment while collaboratively interacting to guide the physical development of new facilities in support of our academic and research mission. The strategy involves the formulation of plans and planning directives which assimilate broad-scale issues such as pedestrian and vehicular access, internal circulation, land use options, landscape character, and open space preservation for enhancing the campus and enriching the academic experience. The strategy also involves developing implementation tools and enforcement mechanisms that insure the University can achieve its Regentally adopted goals. This document, the Entrance and Edges Plan and the overall Landscape Development Projects report presented to the Board of Regents in March of 1990, are a part of this Vision 2000 planning strategy.